

## **Historic, Archive Document**

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# GRISWOLD SEED & NURSERY COMPANY

LINCOLN-NEBRASKA  
29<sup>TH</sup> ANNUAL - 1919



LAXTONIAN  
PEA

Per Pkt. 15¢



PAPAGO  
SWEET CORN  
Per Pkt. 15¢



Per Pkt. 20¢  
NEW BUSH MUSK MELON



# **SIMPLE RULES FOR ORDERING**—*BE SURE TO READ THIS PAGE*

OUR CONSTANT AIM IS TO MAKE THE HIGHEST QUALITY THE FIRST CONSIDERATION, AND NEXT, TO PUT OUR PRICES AS LOW AS GOOD SEED CAN BE SOLD

Next in importance to supplying the best seeds is the prompt and accurate filling of orders. To that end we ask the co-operation of our patrons. It will hasten forwarding materially, if they will kindly make up orders alphabetically, as the goods are offered in the catalogue. This method is easier and is a safeguard against neglecting to order some item of importance. Seeds are put in compartments in our stores alphabetically, hence an order can be filled more quickly if it is made out in that manner.

**CATALOGUE CHANGE.**—We have made one important change, which we believe you will like. We quote all seeds by pound instead of pint, quart, peck and bushel.

**TESTED SEEDS.** For several years past we have tested all garden, field, and grass seed. We have a large tester, built according to the plans approved by the Government Department of Agriculture. The value of tested seeds to the buyer cannot be over-estimated. It is an assurance to you that the seed is full of vigorous life and vitality, and that if you plant under proper conditions and follow our instructions you will not be disappointed.

**ERRORS.** We exercise the utmost care in filling orders, striving to do a little more than we offer; yet in the press of business errors sometimes occur, in which event we wish to be promptly notified of the fact and will make such corrections as will be satisfactory. Errors made in printing are subject to correction. Please keep copies of all your orders for comparison.

**OUR TERMS** are cash with order. We cannot ship C. O. D. unless you remit at least one-fourth of the amount of the order. It always costs you extra for goods to come that way. We will take your personal check, but will hold order till banks report checks paid. Better send us Draft, Money Order, or Registered Letter. We always refund your money if we cannot fill order.

**MARRIED WOMEN** will save confusion in correspondence by always using husband's initials.

**YOUR ORDER** is acknowledged the day it is received, and filled just as soon as possible.

**HOW WE SHIP.** We ship all heavy goods by freight at your expense, unless otherwise instructed. We send you duplicate bill of lading, showing date, number of bags sent, and route. All plants and perishable goods are sent only by express at your expense, unless quoted "prepaid," in which case we send by mail or prepaid express, and notify you.

**SAFE ARRIVAL.** We guarantee all goods except sweet potatoes to arrive safely and will refund you for any loss, providing you have Agent make notation of such loss on expense bill and return it to us. This applies on Irish potatoes if time of shipment is left to our judgment.

We also guarantee all seeds that we send out at catalog prices to be carefully selected, and tested. We are always pleased to make good any mistake, but all complaints must be made within 15 days from receipt of goods. On account of weather conditions, etc., we cannot guarantee the crop. You can have the Experiment Station test any of our seed and if not satisfactory will take it back and refund to you.

**OUR RESPONSIBILITY.** We have been in business here for 29 years. We would be pleased to have you write (enclosing stamp) any bank or business firm here in Lincoln as to our standing.

**LARGE ORDERS.** Any market gardener, association, or individual requiring large quantities of seeds, are invited to write for special prices. Although we have made our prices in this catalog very low, yet when a considerable quantity in pounds or bushels is wanted, we are in a position to supply at a lower price than by the single pound or bushel. We wish it to be distinctly understood, however, that we will not sacrifice quality in so doing. Mail us a list of your wants, and we will submit to you our lowest cash price for the lot.

**FALL CATALOG.** Our fall catalog will be ready about July 1. It is brimful of seasonable seeds, plants and bulbs to plant during the summer and autumn months. Don't fail to write for a copy if you do not receive one.

**ORDERS WITHOUT MONEY OR ADDRESS.** Every year we get hundreds of orders from our customers unsigned. We have at present on our files a number of orders for various amounts, which we are unable to send out as we don't know where to forward them. Every day or so we get a long letter of complaint from some customer, upbraiding us for not sending his seeds promptly. Then we get real busy with this file and endeavor to locate the order. Often it is a hard proposition. So, if you do not hear from us within a reasonable length of time after you mail your order, send us a duplicate order, naming the date on which the former order was sent, the amount of money enclosed, and in what form. We want to satisfy you and don't want you to complain about our service—if we can help it.

**NON-WARRANTY.**—Most of the failures with seeds, plants and bulbs are due to causes entirely beyond our control, such as unfavorable weather or soil conditions, too deep or too shallow planting, etc., which renders it impossible for us to guarantee success, and although we take all possible care to supply only such goods as will, under proper conditions, produce satisfactory results, we still give no warranty as to description, quality or productiveness of any of the seeds, plants or bulbs we send out, and will not be in any way responsible for the crop, and every order for articles named in this catalogue will be executed on these conditions only. It must, however, be plain to everyone who gives the matter the slightest thought, that it is to our best interests to send out only such stock as will not only grow but prove true to name and description.

**FREE SAMPLES.** We are always too glad to send you free samples of Corn, Grass, and other Field Seed, for testing purposes. You are not imposing on our good nature when you ask us to send you these samples, for we know the quality of the samples will bring us your big order.



Dear Friend:

We come to you again at the beginning of another year, asking you to receive this new annual seed book and catalog as our representative in your home. We hope you will give it a hearty welcome. We believe this is the best catalog we have ever issued, and furthermore, we believe it is as good and dependable a seed book as will come to your home this year, or any other year. Our reason for believing this is: The House that issues it is above the average in dependability, and has been in the seed business for 29 long years right here in Lincoln and



knows just the needs of this great Middle West in the line of seeds and nursery stock. For we would have you know that we are now in position to furnish you with the very best fruit trees, shade trees, ornamental trees, small fruit, etc., that money can buy. Our nursery stock is of the same high standard as the seeds we have been furnishing all these years.

Now the war is over—and a world to be fed, this spring, more than ever before, there will be need for large crops in the U. S., as the need for food will be greater than ever. The victory garden for 1919 is just as important as the war garden of 1918. The Government Food Administration assures us that food conservation is still necessary. Therefore food production is more necessary. We are under obligations to feed war devastated Europe until they can raise a crop, and they have nothing at present with which to start a crop. No machinery, no farm tools, no seed, and their land torn up by trench and shell. It is up to the people of our favored land to plant every available acre, and to raise every pound of eatables possible. We can live on the perishable foods and ship more staple to our neighbors across the sea.

Here are a couple of verses from the pen of Hiram Green, Editorial writer for the Woman's World. He states your duty better than we can:

The more you plant the more you grow,  
And you cannot reap if you do not sow,  
This year we will have lots more to feed,  
To fill our own and the old world's need,  
Which brings me now to the point of this rhyme,  
"Plant a Victory Garden for the good Spring time."

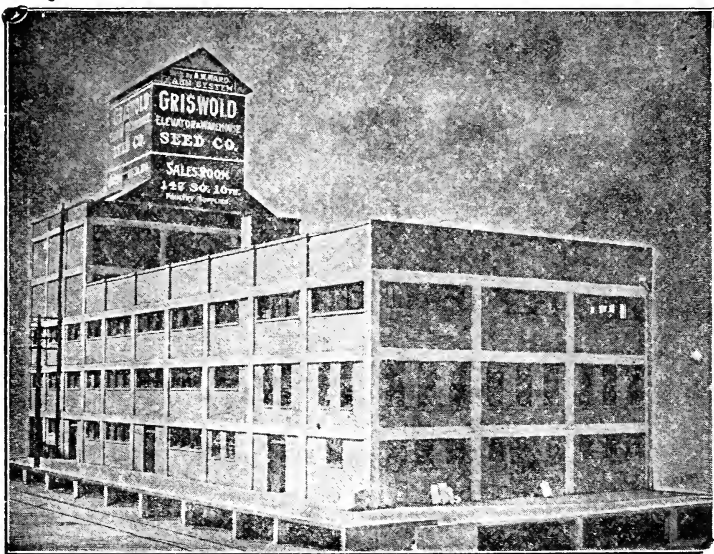
Also keep a hen, keep a hen, keep a hen,  
You'll be helping then, helping then, helping then,  
Hens are not hard to keep,  
And when prices of eggs are steep you can laugh  
yourself to sleep.  
Br-r-r-r! O, Big Ben, O, Big Ben.

An old world is about to crumble. A new world is in the making. At about the time these lines are being written our President and his party are landing in France to attend the greatest Peace Conference in the world's history. By the time you are reading this the terms of Peace will be known. We are sure they will make for a better world. Our soldier boys are now flocking home, and we are all so proud of them, for what they have done. For they have been the deciding factor in making the world a better place in which to live. Now we all want to keep it so.

Our job is going to be to continue to furnish the very best Seeds, Nursery Stock, Insecticides, Bee Supplies, Sprayers, etc., that money can buy, and yours will be to make the best use of the various supplies, and help to feed the world. Know your garden and make it produce a balanced ration. She (or He) also serves who stoops and weeds.

Yours for a prosperous year,

**Griswold Seed & Nursery Co**



This is our warehouse where we clean and store the immense seed stocks that are required to fill your orders

## TO MAKE A HOT BED

A hotbed should face the south or southeast, be located on well drained ground and if possible be protected on the north by a building or high fence.

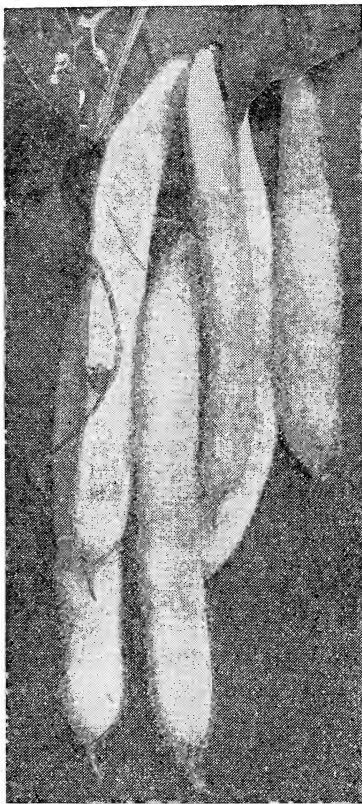
6x10 feet will be large enough for an acre of garden. Sashes are usually 3x6 feet. Dig a trench 2 feet deep, around this place a frame 16 inches high at the back and 8 inches in front. Fill the hole with fresh horse manure that has lain for a week or ten days, tramping it down firmly and covering with 4 inches of fine, rich, black soil. Place the sashes over the frame. After standing a few days lift the sashes to allow the rank heat and steam to pass off; when the temperature has subsided to 90 degrees F. sow the seed. It is best to bank the outside of the frame up to the sash.

The hotbed may be all above ground by making a pile of manure 2 feet high, and 3 feet longer, and 2 feet wider than the frame, fill in with black soil and complete as directed for the excavated bed.

When plants are nearly ready for outside lift the sashes every pleasant day, gradually hardening off the seedlings.

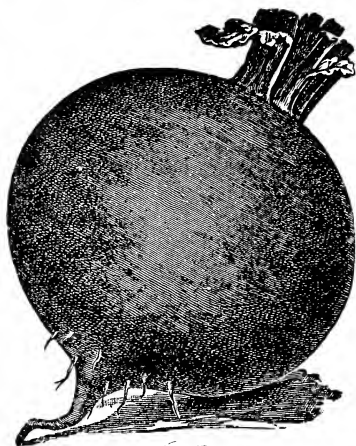
Frame and sash should be stored away at the close of the season and will thus last for years.

# Griswold's Victory Vegetable Seed Collection No. 1



## EARLY GOLDEN CLUSTER WAX

Begins bearing in July, continuing to produce abundantly until frost, large clusters of golden-yellow pods 6 to 8 inches long and of delicious flavor. Valuable either as a shell or snap bean, white seed. Pkt., 8c; 1b., 40c; postpaid.



## EARLY WANDER BEET

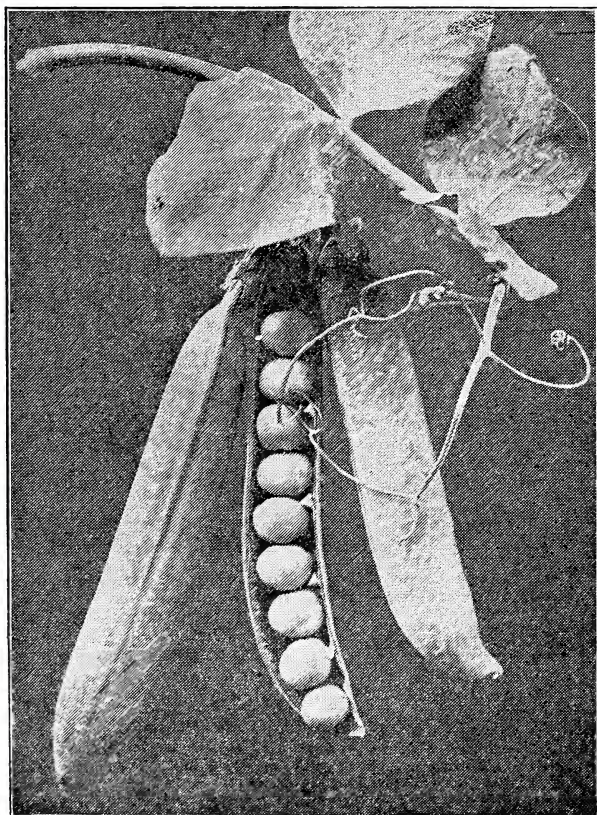
Earliest, finest shape, deepest colored. Pkt., 9c; oz., 25c; 2 oz., 45c; 1 lb., 75c; 1b., \$2.50; postpaid.

one large 8c package of each of these 6 delicious vegetables for 40c postpaid.



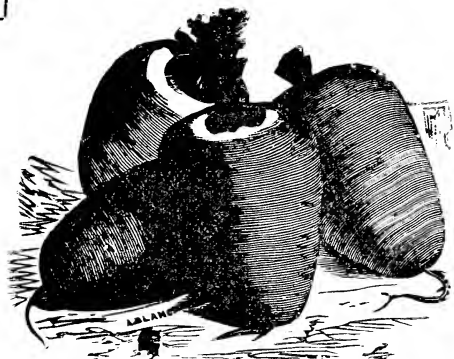
## NEW SPARKLER

A Radish that is equally good for forcing or out door growing. Pkt., 8c; oz., 25c; 1 lb., 75c.



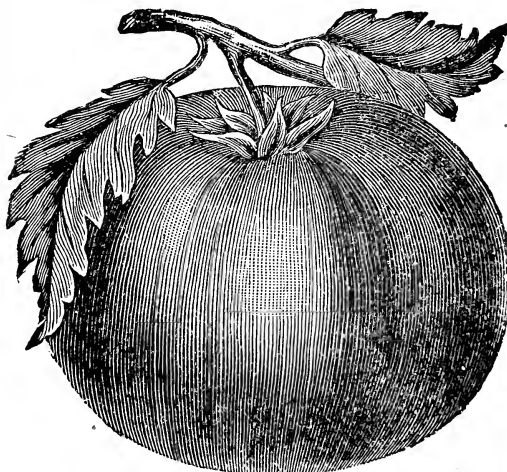
## LITTLE MARVEL PEA

Especially valuable for home and market garden. Extremely early. Pkt., 8c; 1b., 30c; postpaid.



## GUERANDE OR OX HEART CARROT

For fall use, nothing superior. Pkt., 8c; oz., 20c; 1 lb., 60c; postpaid.



## EARLIANA TOMATO

Pkt., 8c; 1/2 oz., 30c; oz., 50c; 2 ozs., 95c; 1 lb., \$1.75; 1 lb., \$3.00; 1b., \$5.00; postpaid.

# Cover Collection

Below we give you complete descriptions of the things portrayed on the front and back cover of this catalog. These are all new vegetables, but have been tested and tried out, so when we ask you to try them we are not asking you to experiment. We know just what the results will be. The regular price of the 5 packages is 65c. We offer them to you for 50c.

## JOHN BAER

The best tomato on earth. It is the offspring of two marvelous tomatoes, the result of 15 generations of improvement and selection. It produces the most perfect, high crown red tomatoes in 30 days, also an enormous crop under ordinary conditions; 50 to 100 fruit to each plant, ripens evenly right up to the stem, no cripples, no scalds, no blight, no cracked, wrinkled one-sided, uneven, scarred fruit. When dead ripe John Baer tomato will not burst. It has a wonderful glistening, bright red color, and a mild, delicious, sweet flavor, is almost seedless, a marvelous stem setter, often 10 fruit in first cluster, solid and meaty. John Baer Tomato is the earliest, finest shaped fruit and has the best color and shipping quality of any tomato on earth. Price, pkt. 15c; 3 oz. 35c; oz. 65c; 1 lb. \$1.75.

## PAPAGO SWEET CORN

We call it Papago because a few kernels were found several years ago on the Papago Indian Reservation south of Tucson, Ariz. It thrives well on heat and grows and produces admirably in an arid section. The stalks grow to a height of about 7 feet, and each one produces from 2 to 4 well filled ears of the sweetest and most delicious corn one ever ate from a cob. In a hot, dry section it will outyield all varieties of Sweet Corn nearly 10 to 1. Price, pkt. 15c; pt. 30c; qt. 55c; 2 qt. \$1.00; postpaid.

## LAXTONIAN PEA

A dwarf pea with large handsome Gradus pods. It is slightly earlier than Gradus, maturing about same time as Thomas Laxton. Vines medium dark green and medium heavy foliage. Pods 3½ to 4 inches long, slightly curved, making broad sweep to point. Pods are inclined to bear more abundantly at top of vines and less along stalk, making it an easy pea to pick, a very heavy yielder. Height of straw 14 inches. Price, pkt. 15c; ½ lb. 30c; 1 lb. 55c; postpaid.

## GOLDEN PONDEROSA

One of the most interesting novelties ever introduced. It equals Ponderosa in size but bears rich, golden-yellow fruits in abundance.

A yellow tomato that has color to distinguish it, is not entirely novel. Many such varieties have been introduced, but have failed to gain popularity, owing to lack of flavor or some other essential, have disappeared from cultivation. Golden Ponderosa is equal in every respect to its parent the red Ponderosa, possessing all the qualities that have made our Ponderosa a household word throughout the land, and, in addition, has the striking color which compels instant attention. That which differentiates it from all other sorts is its conspicuous and striking appearance when served sliced with the red Ponderosa. This combination produces an effect appealing to the appetite, and supplies a decorative table effect both novel and attractive. Price, pkt. 20c; 1 oz. 25c; ½ oz. 40c; 1 oz. 75c; 1 lb. \$2.50.

## NEW BUSH MUSKMELON

### A Compact Bush-growing Variety

It has every indication of revolutionizing the melon-growing industry on account of its bush-growing habit. Contrary to expectations, it is usually productive, and permitting, as it does, close planting (2½ feet apart), the yield per acre is considerably enhanced. Notwithstanding every attempt to increase our seed supply each year, the demand has been of such a phenomenal character, we have early sold out our entire output. Therefore we advise the placing of your order for this variety early. It is one of the most deliciously flavored and most spicy melons in cultivation, being more than noticeably sweet and juicy.

The plants grow 15 to 18 inches wide, should be planted in hills 2½ feet apart, 3 to 4 plants to a hill; they yield twice as much as vine sorts. Deeply netted with shallow ribs, the flesh is light green and of exquisite quality. Price, pkg. 20c; oz., 30c; ½ lb., 85c; 1 lb., \$3.00; postpaid.

# Griswold's Choice Vegetable Plants

We grow these in large quantities and also contract with careful hotbed growers to guard against failures.

**NOTE**—We can supply only the varieties listed here.

**CABBAGE.** Ready about April 25th. We can supply the following varieties: Early Jersey, Wakefield, Early Winningstadt, Early Flat Dutch, All Season, Sure Head, Late Flat Dutch, Large Late Drumhead.

**CAULIFLOWER.** Early Snowball.

**CELERY.** White Plume, Golden Self Blanching, Giant Pascal.

**CHIVES.** Clumps of roots, 25c each; postpaid. \$1.50 per dozen; by express.

**EGG PLANTS.** New York Purple.

**PEPPER.** Chinese Giant, Large Bell or Bull Nose, Ruby King, Long Red Cayenne.

**SWEET POTATOES.** Yellow Jersey, Red Jersey, Southern Queen.

**TOMATOES.** Dwarf Champion, Chalk's Early Jewell, Earliana, Ponderosa, Stone, Golden Ponderosa, Yellow Pear.

**JOHN BAER TOMATO PLANTS.**

**DWARF PONDEROSA TOMATO PLANTS.**

|                             | Ready About |    | Postpaid |          |         | By Exp. Your Expense |          |          |
|-----------------------------|-------------|----|----------|----------|---------|----------------------|----------|----------|
|                             |             |    | Per doz. | Per 25   | Per 100 | Per doz.             | Per 100  | Per 1000 |
| Early Cabbage.....          | Apr.        | 25 | \$0.20   | \$0.20   | \$0.90  | \$0.15               | \$0.85   | \$6.50   |
| Late Cabbage.....           | May         | 10 | .15      | .25      | .85     | .15                  | .75      | 5.50     |
| Early Tomato.....           | Apr.        | 25 | .25      | .45      | 1.00    | .20                  | .90      | 8.00     |
| John Baer Tomato.....       | Apr.        | 25 | .30      | .50      | 1.50    | .25                  | 1.00     | 9.00     |
| Dwarf Ponderosa Tomato..... | Apr.        | 25 | .35      | .60      | 1.75    | .30                  | 1.50     | 10.00    |
| Late Tomato.....            | May         | 10 | .20      | .30      | .90     | .15                  | .80      | 7.00     |
| Cauliflower, Snowball.....  | May         | 10 | .25      | .45      | 1.25    | .20                  | 1.00     | .900     |
| Egg Plant.....              | May         | 10 | .25      | .45      | 1.25    | .20                  | 1.00     | 8.00     |
| Early Celery.....           | May         | 10 | .20      | .35      | .75     | .15                  | .60      | 5.50     |
| Late Celery.....            | June        | 1  | .20      | .30      | .75     | .15                  | .50      | 4.50     |
| Pepper.....                 | May         | 10 | .25      | .45      | 1.25    | .20                  | 1.00     | 9.00     |
| Sweet Potatoes.....         | May         | 10 |          |          | .65     |                      | .50      | 4.50     |
| Asparagus Roots.....        |             |    | .25      | .40      | 1.00    |                      | .70      | 6.00     |
| Rhubarb Root.....           | 10c each    |    | \$1.00   | per doz. |         | 60c                  | per doz. |          |

All of these books are interesting, prepared by recognized authorities and will be found very profitable.

**ONIONS,** by Jordan. How to grow them profitably. How to prepare seed bed, plant, cultivate, weed, harvest and market. An attractive, well illustrated book.

**AMATEUR FRUIT GROWING,** by Green. Covers the entire subject of growth, cultivation and marketing of all fruits. Practical fruit growers cherish this book.

**EVERGREENS,** by Harrison. How to grow them. Selection and growing from seed or nursery stock for wind-breaks, shelter belts, hedges and ornamental planting.

**WEEDS,** by Shaw. How to eradicate them. Contains the most effective means of destroying all kinds of weeds including Canada thistle; also information about spraying.

**PHLOX MANUAL,** by Harrison. Complete information about varieties, methods of culture, for pleasure and profit. Selection, preparation of soil, planting, propagation.

**PEONY MANUAL.** Practical information about growth, care and marketing of the peony. A book that every fancier will enjoy.

**POULTRY MANUAL,** by Sewell. Breeds of fowls including turkeys, ducks, and geese; practical methods of raising poultry and eggs for market and home use.

**COUNTRY KITCHEN COOK BOOK.** A book that should be in every farm home. Five hundred tried and tested recipes of good, wholesome dishes and many suggestions of great value in the farm kitchen. Price of all the above books, 50c each; postpaid

# VEGETABLE SEEDS

At prices named we pay postage on  
Seeds by Packet, Ounce, Pound.

In fixing a price on packages in this catalog this year, we had to decide between two propositions. Either reduce the quantity in the package and sell at the old price of 5c, or leave the weight the same and advance the price. We decided to do the latter. Therefore you will find our packets to be the same large, well filled packets and the price 8c or 2 for 15c with substantial discounts for quantity.

ALL GARDEN SEEDS QUOTED IN THIS CATALOG ARE POSTPAID. FOR QUANTITY PRICES NOT POSTPAID, SEE PAGES 24 AND 25

## Discount on Seeds in Packet

Any 4 of our large 8 cent packages for 25c; 8 for 50c; and 17 for \$1.00

For your convenience in ordering we have made up a number of Seed Collections. You will find them in different places in the Seed Department. If you wish a collection just order by number.

## Asparagus

One ounce to 50 feet of drill; 5 pounds to the acre

Sow in March or April, in good mellow soil, after soaking the seed 24 hours in warm water, in drills one foot apart, and one inch deep. During the summer keep the soil mellow and free from weeds thinning the plants to 4 inches apart. The following spring transplant into permanent beds that have been deeply dug and highly manured.

**CONOVER'S COLOSSAL.** A mammoth, green sort of the best quality. Pkt., 8c; oz., 15c; 1 lb., 30c; postpaid.  
**PALMETTO.** An early, green sort, prolific and very desirable. Pkt., 8c; oz., 15c; 1 lb., 30c; postpaid.  
**BARR'S MAMMOTH.** An early, large-stemmed, green variety. Pkt., 8c; oz., 15c; 1 lb., 30c; postpaid.  
**COLUMBIAN MAMMOTH WHITE.** Produces white stalks of large size and finest quality. Pkt., 8c; oz., 15c; 1 lb., 30c; postpaid.

## ASPARAGUS ROOTS

The ground should be well manured and deeply spaded, the roots planted two feet apart, one foot apart in the row, and at least six inches deep. These will be ready to use in two or three years. 25c per dozen; 50 for 75c; \$1.25 per 100, postpaid.  
40c for 50; 75c for 100, by express at your expense.

## Beans

Earliest varieties, ready for table in 40 days: 1 pound to 10 feet of drill; 1 bushel per acre.

The soil best adapted to beans is a light, rich, well-drained loam, which was manured for the previous crop. Beans are extremely sensitive to both cold and wet and it is useless to plant them before the ground has become dry and warm. The largest returns will result from planting in drills from two to three feet apart and leaving the plants two to six inches in the row. Up to the time of blossoming they should have frequent shallow cultivation. Never hoe when the vines are wet, as the pods will become discolored. For succession plant every two weeks.

## DWARF OR BUSH LIMA BEANS

The Bush Limas are quite desirable for the garden, as their cultivation does away with poles. These should be planted edgewise with the eyes down and two inches deep. Plant June 1.

**HENDERSON'S BUSH LIMA.** Grows in compact bush from about 18 inches high. The beans are small in size but of delicious flavor and great productiveness and about two weeks earlier than the others. Pkt., 8c; lb., 40c; postpaid.

**BURPEE'S BUSH LIMA.** A bush form of true, large Lima. Good yielder, bearing a handsome, large pod, well filled. Pkt., 8c; lb., 40c; postpaid.

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There are many bargains and low prices in this catalog, it will pay you to read it carefully.

## Bush or Snap Beans

### WAX or YELLOW POD VARIETIES

All 8c pkts. are also two for 15c

**ADMIRAL TOGO.** This grand bean is a wax podded sort with wonderfully handsome and attractive pods averaging 6 inches in length and of an unusually desirable shade of yellow. The table quality is delicious. This sort is usually free from rust and other diseases. Its extreme earliness is also a valuable characteristic, coming, as it does, only about three days behind Extra Early Red Valentine. Pkt., 10c; lb., 60c.

**CURRIE'S RUST PROOF WAX.** The vine is very vigorous, hardy, and an early and abundant bearer. Pkt., 8c; lb., 45c.

**DAVIS' KIDNEY WAX.** Large beans, are pure white, kidney shape, excellent for cooking, green or dry. The pods while young are stringless, tender and of excellent flavor, very long, straight, flat and clear, waxy white. Very productive. Price, pkt., 8c; lb., 45c; postpaid.

**BLACK WAX.** A popular variety; pod a waxy yellow, solid, tender, almost transparent, stringless, seeds when ripe jet black. Price, pkt., 8c; lb., 45c; postpaid.

**GOLDEN WAX.** A standard sort. One of the earliest beans in the market. Pkt., 8c; lb., 45c.

**IMPROVED GOLDEN WAX.** Pods are thicker than those of Golden Wax, and of better quality. Price, pkt., 8c; lb., 45c; postpaid.

**WARDWELL'S KIDNEY WAX.** Pods long, flat, nearly straight, white, handsome, of good quality. Pkt., 8c; lb., 45c.

## Dwarf Green Pod Beans

**BURPEE'S NEW STRINGLESS.** One of the best stringless green-podded beans in cultivation. The pod is round, full, large and straight. Pkt., 8c; lb., 40c; postpaid.

**GIANT STRINGLESS.** This extra early variety is exceedingly productive, bearing round green pods 6 to 7 inches long, very meaty. Pkt., 8c; lb., 45c; postpaid.

**IMPROVED RED VALENTINE.** Early and prolific. Pods are remarkably fleshy and tender, and remain a long time without becoming hard. Pkt., 8c; lb., 40c; postpaid.

**LITTLE WONDER NAVY.** Valuable for field culture; very prolific, excellent dry bean. Pkt., 8c; lb., 35c; postpaid.

**LONG YELLOW SIX WEEKS.** Hardy, early and productive. A standard sort. Pkt., 8c; lb., 35c; postpaid.

**REFUGEE (Thousand to One.)** Most prolific green-podded sort, thick and fleshy. Especially desirable for pickling. Pkt., 8c; lb., 35c; postpaid.

**TEPARY.** Similar to the Navy bean but a little smaller in size. It is a great drouth resister. Price, pkt., 5c; lb., 35c; postpaid.

**WHITE MARROW.** Good shelled, either green or dry. Pkt., 8c; lb., 35c; postpaid.

## Pole Beans

One quart to 200 Hills

These are more tender than the Dwarf Beans, and planting should be delayed about a week longer. Set a stout stake about 8 feet long, firmly in the center of each hill, leaving four plants to a hill.

**CUTSHORT (Corn Hill).** A standard sort for planting among corn. It will yield a good crop without the use of poles. Beans nearly oblong, cut off at ends, white with reddish-brown spots. Pkt., 8c; lb., 40c; postpaid.

**DUTCH CASE KNIFE.** An early corn hill bean. Pods very long and flat; beans flat, kidney-shaped, white, of excellent quality, green or dry. Pkt., 8c; lb., 40c; postpaid.

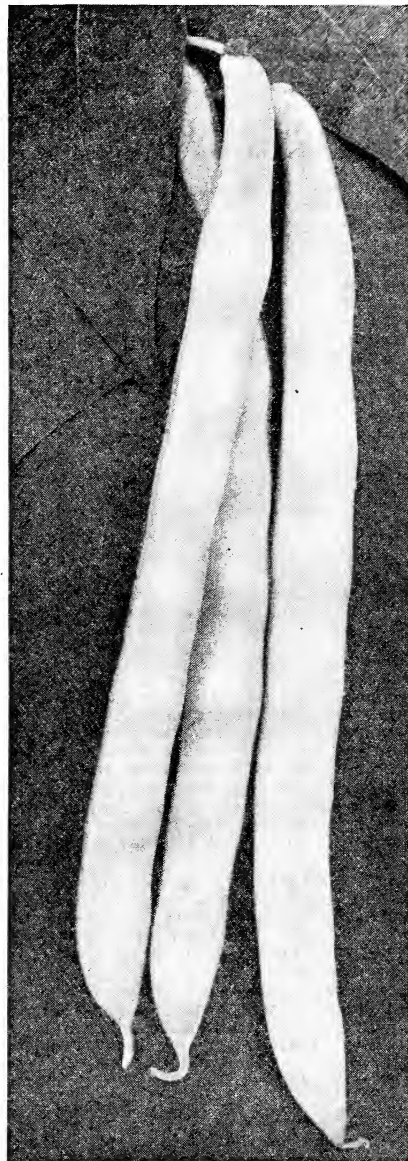
**EARLY GOLDEN CLUSTER WAX.** Begins bearing in July, continuing to produce abundantly until frost, large clusters of golden-yellow pods 6 to 8 inches long and of delicious flavor. Valuable either as a shell or snap bean, white seed. Pkt., 8c; lb., 40c; postpaid.

**LARGE LIMA (Butter).** Productive. Large flat pods; beans white, of excellent flavor. Pkt., 8c; lb., 45c; postpaid.

**OLD HOMESTEAD (Kentucky Wonder).** An excellent green-podded variety; enormously productive, the long pods hanging in great clusters along the entire vine. Pkt., 8c; lb., 40c; postpaid.

**LAZY WIFE.** A late bean. Pods long, broad, thick and entirely stringless; rich and buttery; dry beans, white and unsurpassed as shell beans for winter use. Very prolific. Pkt., 8c; lb., 35c.

**RED KIDNEY.** Usually grown for dry beans but excellent also as green shell. Splendid for boiling or baking. These are the old-fashioned Red Kidney. Pkt., 8c; lb., 35c; postpaid.



Admiral Togo

## GRISWOLD'S BEST 4 PACKAGE BEAN COLLECTION NO. 1

25c POSTPAID

Four of our best beans for home gardens are our Stringless Green Pod, Wardwell's Kidney Wax, Old Homestead or Kentucky Wonder Pole Bean and Henderson Bush Lima. All of these are illustrated and described on this page. We will send you by mail one 8-cent packet of each of these 4 varieties postpaid for 25c. This is your chance to have these 4 splendid varieties at the lowest cost.

## Beets

One ounce to 100 feet of drill; 5 to 7 lbs. to acre in drills. The early turnip varieties are ready for the table in from 50 to 60 days from sowing of seed.

The best results are obtained on a deep, rich, sandy loam, in freshly prepared soil, which should be pressed firmly over the seed. In dry weather soak seed 24 hours before planting.

**PRICE OF ALL BEET SEED SHOWN ON THIS PAGE: PKT. 8c; 2 OZ. 25c; ¼ LB. 45c; POSTP'D.**

**ARLINGTON BLOOD TURNIP.** A dark-leaved variety, following Eclipse in maturing; perfectly round, blood-red, excellent quality, and good for winter; does not become stringy and is tender at all times.

**BEST EARLY BLOOD TURNIP.** A favorite early variety. Roots turnip-shaped, dark red; fine flavor, tender and sweet. Good for winter.

**COLUMBIA.** Exera early, also one of the finest main-crop beets "or market or home garden. Roots are turnip shape, 3 or 4 inches in diameter, deep through, smooth and entirely free from small rootlets. Flesh deep blood-red, tender and of rich flavor.

**CRIMSON GLOBE.** Early, of medium size, uniformly round; color deep crimson throughout; exceedingly tender and sweet; good keeper.

**CROSBY'S EARLY EGYPTIAN.** An improved strain, of the Egyptian; skin and flesh are dark red, roots smooth, round, fine quality, extra early.

**DETROIT DARK RED TURNIP.** A grand beet for bunching for market, and for the home garden. Tops small, roots globular, skin smooth, dark blood-red, flesh bright, crisp, tender, sweet.

**DEWING'S EARLY RED TURNIP.** Of good form and flavor. Flesh and top deep blood-red; excellent for early or winter use. Smooth and handsome.

**WOODRUFF'S EARLY WONDER.** A very early beet, maturing earlier than the Crosby's Early. Has a very small tap root and fine deep color. It matures very evenly so that it can all be pulled within a few days after you begin pulling crop. A good beet to sow as a second crop. It is said by market gardeners to be the earliest beet in existence.

**HALF LONG BLOOD.** An entirely distinct variety, and the best for winter use. The roots are pear-shaped, smooth, flesh a rich, dark red, crisp, tender and very sweet, never becoming woody, and retaining its excellent quality longer than any other sort.

**LONG DARK BLOOD.** Tops large, with good sized, long roots, tapering and growing even with the surface; dark red; flesh sweet and tender, remaining so until spring. A popular winter sort. An excellent keeper.

**EARLY MODEL.** A perfect globe in shape with a very small tap root. The color of the flesh is equal to that of the best long beet in existence. The foliage is very small. The beets are always smooth and of the deepest blood red color while they quickly attain a good size.

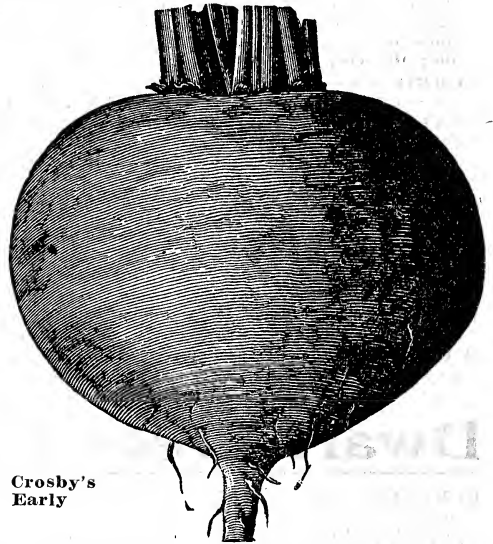
**ECLIPSE.** An extra early variety with round, smooth, blood-red roots. Matures very early and is popular both for market and home garden.

**SWISS CHARD.** Grown for its leaves only; mid-rib is cooked and served like asparagus, leaves used for greens. Pkt. 8c; oz. 15c; ¼ lb. 60c; postpaid.

## Brussels Sprouts

Matures 140 to 150 days from seed

Brussels Sprouts are highly valued in all European countries but are not generally appreciated here. Thousands and thousands of native-born Americans have



Crosby's  
Early

never tried them and do not know what palatable and nutritious vegetables they are. They should be in every garden.

Culture same as for early or late cabbage, depending on whether an early or late crop is desired, with the exception that the seed should be sown a few days earlier and when the plants are planted out they should be set 15 inches apart in rows 2 feet apart. One ounce will sow 200 feet of drill. The stem which usually grows from 20 inches to 2 feet in height, is covered with "miniature Cabbages" which may be boiled like cabbage or cooked in cream like cauliflower. They are by all means the most delicious and delicately flavored of the cabbage family. On this variety the heads grow very closely and its quality is the finest. Price, pkt., 8c; oz., 20c; ¼ lb., 55c; postpaid.

## Broccoli

The culture is the same in all essentials as for Cauliflower, in fact it is a good deal like Cauliflower. It is grown most successfully where the season is long, cool, and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than Cauliflower.

**NEW WHITE CAPE.** A very desirable variety. It has medium sized heads, close and compact, and of a beautiful creamy white color. A sure header. Price, pkt., 8c; oz., 40c; postpaid.

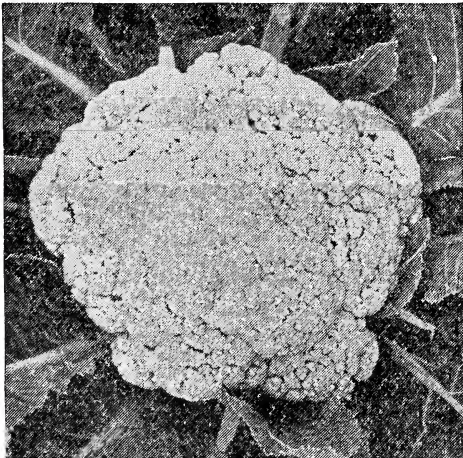
## Cauliflower

These need a deep, rich, moist soil, and require the same treatment as cabbages. For early summer varieties, seed should be sown in hotbed early in March, transplant when weather is warm. For late or autumn varieties, sow in March or April, transplant in June. Hoe often.

**DANISH GIANT (Dry Weather).** The merits of this first class cauliflower is recognized by its increasing popularity. The crop is 2 or 3 weeks earlier than the Earliest Erfurt. The heads are pure white and of fine quality. The plants are less affected by dry weather than any other variety, making it very valuable for dry sections. Price, pkt., 8c; ½ oz., \$1.75; oz., \$3.00; postpaid.

**EARLY SNOWBALL (Early Selected).** This very superior strain is noted for producing plants of dwarf habit, short, compact growth, and uniform shape. It is extremely hardy and one of the surest to make a solid head. For forcing or planting in open ground no other variety can surpass it. Good for early, second early, and late planting. Price, pkt., 8c; ½ oz., \$1.35; oz., \$2.50; postpaid.

**EXTRA EARLY ERFURT.** A very fine strain producing large, white, firm heads close and of excellent quality. Dwarf, early and always certain to head early or late. Later and larger than Earliest Erfurt. Price, pkt., 8c; ½ oz., \$1.90; postpaid.



# Cabbage

One ounce to 5,000 plants; 2 ounces to transplant an acre. Ready for table in from 100 to 160 days from seed, according to varieties.

## FOR CABBAGE PLANTS SEE PAGE 3

For early summer use sow in hotbed in February or March. Before transplanting to the open ground they should be hardened off by exposing them gradually to the night air. For winter use sow in open ground in May or June, taking care in either case not to let the plants stand too closely, as this makes them "spindling". When five or six inches high, transplant in rows two feet apart one way, and 12 to 18 inches the other way, according to variety, burying to the first leaf, whatever the stem length. Hoe frequently, drawing the earth up about the plants until they begin to head.

## EXTRA EARLY VARIETIES

**COPENHAGEN MARKET.** Best early flat-headed cabbage. The illustration is a good representation of a splendid new early cabbage, one our customers should not overlook. It is the earliest large round or flat-headed sort. The ripening is early and uniform all maturing at one time and almost with Early Jersey Wakefield (oblong head). Considering its early season, the heads are remarkably large, averaging ten pounds in weight. Pkt., 8c; ½ oz., 25c; 1 oz., 45c; 2 oz., 80c; ½ lb., \$1.50.

**EARLY YORK.** Very early; small heart-shaped. Firm and tender. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.

**EXTRA EARLY EXPRESS.** The earliest variety in existence and produces rather small heads long before the Jersey Wakefield or other varieties have begun to head up. Heads solid, have few outside leaves, and can therefore be planted very close and yield a large crop. It is a most important variety for the gardener. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.

**EARLIEST ETAMPES.** Earliest of All. Extermely early, with small, quite solid, pointed heads; excellent quality. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.

**EARLY JERSEY WAKEFIELD.** Most gardeners depend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.

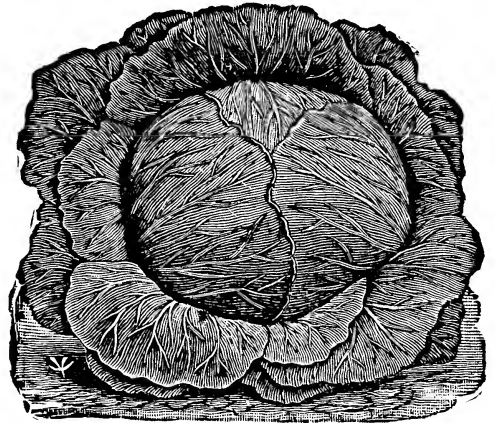
**EARLY WINNINGSTADT.** One of the best, being very hardy and sure to head; suffers less from the cabbage worm than any other sort; heads regular, conical very hard and keeps well. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.

## SECOND EARLY or SUMMER VARIETIES

**EARLY DRUMHEAD.** A fine strain; of dark bluish-green color, plant very hardy, compact, flat head. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.

**EARLY DWARF FLAT DUTCH.** An early cabbage of good size. Heads are flat and very solid. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.

**EARLY SUMMER.** Deservedly popular with market gardeners throughout the country. It forms large, solid, round, flattened, compact heads of excellent



Copenhagen Market

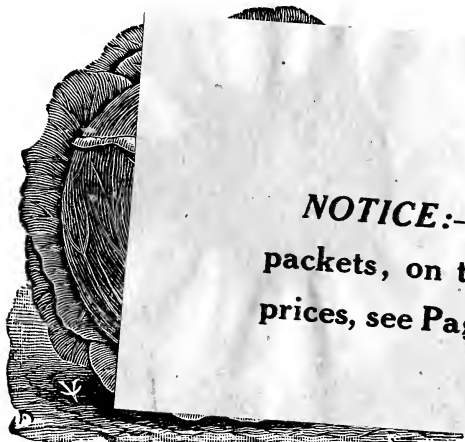
quality, tender and sweet. The heads average over double the size of the Jersey Wakefield, weighing eight to ten pounds each, while it matures only ten or twelve days later. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.

**ALLHEAD EARLY.** Earlier than any other large cabbage, larger than any other early cabbage. Heads deep, flat, solid, uniform and very tender owing to its rapid growth. An all-the-year cabbage. We consider this one of the best second-early sorts on our list. Price, pkt., 8c; oz., 75c; ½ lb., \$2.00; postpaid.

**ALL SEASONS.** (Vandergaw.) This excellent sort is early, maturing a week or ten days after All Head Early; makes larger and harder heads than that sort, averaging ten to fifteen pounds in weight. Truly an all-season variety. Price, pkt., 8c; oz., 80c; ½ lb., \$2.50.

## LATE or WINTER VARIETIES

**AUTUMN KING.** Is extremely large and solid. Flat headed late variety. Price, pkt., 8c; oz., 40c; ½ lb., \$1.25; postpaid.



Hollander

**NOTICE:**—All cabbage seed prices, except packets, on this page are incorrect; for correct prices, see Page 24.

combining the best qualities of all sorts. Price, pkt., 8c; oz., 75c; ½ lb., \$2.50.

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Griswold Seed & Nursery Co.  
Lincoln, Nebraska.

Fulton County, Ohio, Febr. 20, 1918.

Dear Sirs: Last year I ordered seed of your firm and was well pleased. The Peas did just fine. I never saw better ones. The muskmelons were the only ones we had get ripe and the quality was the best ever. The Sweet Corn came up fine and best of all was the John Baer Tomato. We certainly were well pleased with the seed you sent us. Several of my friends are making up garden seed orders for you.

Yours truly,

MRS. J. A. COGAN.

## Carrots

One ounce to row 100 feet long.  $2\frac{1}{2}$  lbs. per acre. Ready for table in from 95 to 120 days from seed, according to variety.

Any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early as the ground can be worked, sow the smaller kinds in rows 16 to 18 inches apart. For field culture sow in drills 18 to 24 inches apart.

**CHANTENAY.** The market gardener's and trucker's favorite. It is an early, very prolific, half long, stump-rooted variety, smooth-skinned, fine in appearance and entirely coreless. It is pulled very easily. The color is a rich orange and the texture and quality are unsurpassed. The finest of all sorts, and it is undoubtedly the best bunching carrot for early market use.

**DANVER'S HALF LONG POINTED.** A half long orange carrot, grown largely on account of its great productiveness and adaptability to all classes of soil. Roots six to eight inches long, tapering uniformly to a blunt point. Flesh deep orange, tender and of good quality. Although the roots of this variety are comparatively short they often produce as large a bulk as the longer field sorts and are more easily harvested.

**EARLY or SHORT.** One of the most popular varieties grown; color deep orange; flesh fine grained and of agreeable flavor; tops small; has a short stump-shaped root. Grows well in shallow soil one of the best for early outdoor planting and for table use.

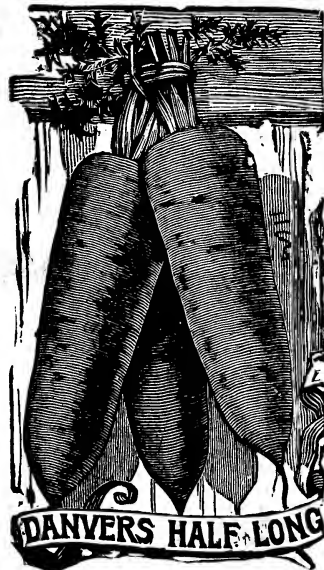
**HALF LONG STUMP ROOT.** The tops are of medium size, roots deep orange, large, tapering to a dull point. Smooth, crisp and tender.

**HALF LONG SCARLET NANTES.** The leaves are fine, the roots are almost cylindrical, very smooth, of good shape and size, and about six inches long; the flesh is red and very sweet. They are easily pulled and keep well. A most excellent sort.

**IMPROVED LONG ORANGE.** Large, smooth, and of rich orange color. A good keeper, of fine quality for table use, and highly nutritious for stock.

**OX HEART or GUERANDE.** A thick carrot, five inches long and very blunt at the lower extremity. It grows very rapidly, and the roots attain a weight of more than a pound. It is tender, of good flavor and of a deep orange color and is a variety we can recommend to all market gardeners.

Price of all Table Carrots, pkt. 8c; oz. 20c;  $\frac{1}{4}$  lb. 60c; postpaid.



## Carrots For Stock

Sow 4 to 6 lbs. to the Acre in April or May. These are undoubtedly the most valuable of all the roots usually grown for stock. They are more nutritious than turnips and nearly all animals like them and are benefitted by them.

**LARGE WHITE BELGIAN.** Grows one-third out of ground. Roots pure white, green above ground with small top. Flesh rather coarse. The roots grow to a large size. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; postpaid.

**LARGE YELLOW or VICTORIA.** Largest, heaviest cropping and most nutritious variety in cultivation; roots fine, of light orange color, and possessing high feeding properties; good keeper. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50; postpaid.

## Celery

Sow the seed (which is slow to bed moist, almost wet, until the

One ounce to 3,000 plants or 200 feet of drill. germinate) in shallow boxes or hotbed, cover the seed not too deep. Keep the seeds germinate. When about four inches, thin out and transplant so that they may stand three inches apart, when the plants are four inches high, cut off the tops, which will cause them to grow stocky. The essentials to success in celery growing are rich soil and plenty of water. The best results are usually obtained from setting about the middle of June or the first of July.

**CELERIAC GIANT PRAGUE.** The roots of this celery are turnip-shaped, large and smooth; are almost round and with a very few side roots. Sweet and tender and may be cooked like turnips or eaten like radishes; used largely for seasoning meats and soups. Price, pkt. 8c; oz. 40c;  $\frac{1}{4}$  lb. \$1.00; postpaid.

**GIANT GOLDEN HEART.** This variety attains a large size, but still remains crisp and tender. Price, pkt., 8c; oz., 40c;  $\frac{1}{4}$  lb., \$1.00; postpaid.

**GIANT PASCAL.** One of the best for fall and winter use. The stalks are very large, solid, crisp and of rich, nutty flavor. Price, pkt. 8c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; postpaid.

**GOLDEN SELF-BLANCHING.** This is without doubt the best celery for general use, the ribs are perfectly solid, crisp, brittle and of delicious flavor, while it has the decided merit of being self-blanching to a very remarkable degree. Price, pkt. 8c; oz. 50c;  $\frac{1}{4}$  lb. \$1.75; postpaid.

**WHITE PLUME.** (See cut.) A variety specially adapted to cultivation by amateurs, as its inner stalks and leaves are naturally white. By simply tying up the stalks and drawing up the soil with the hoe the work of blanching is complete. Price, pkt. 8c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; postpaid.

**CELERY CABBAGE.** In appearance it is more like Stalk Celery or Cos Lettuce than real Cabbage, but to the palate a delicious celery-flavored cabbage, which may be served as a salad, as hot or cold slaw or boiled, minced and seasoned with butter or cream sauce. The seed should be sown during summer for use in autumn or winter. Sow in drills 16 to 20 inches apart, thinning out in the rows two or three times as necessary. Price, pkt., 8c; oz., 50c;  $\frac{1}{4}$  lb., \$1.75; postpaid.



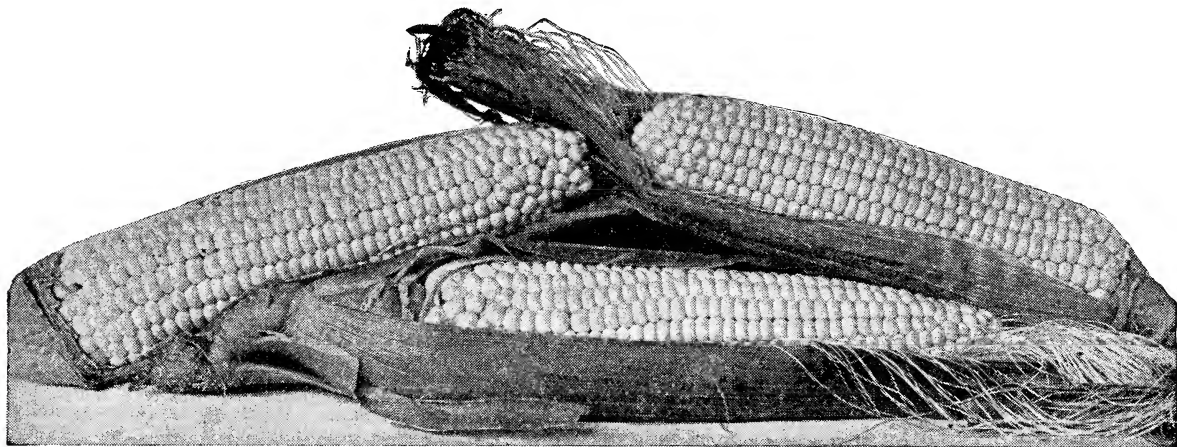
White Plume

**IT WILL PAY YOU TO LOOK ON PAGE 23**

## Sweet Corn

One pound will plant 100 hills; 15 to 20 pounds to an acre in hills.

Sweet Corn being liable to rot in cold, wet ground should not be planted before May, or until the ground has become warm; practically nothing is gained in time, and much is lost in quality by planting too soon.



**Howling Mob**

**GOLDEN BANTAM.** Extremely hardy, can be planted earlier than any other true sweet corn, thus producing the earliest supply. Ears 6 inches long, with 8 rows of grains, which are a golden yellow when ready for use. Can be planted thickly, and every stalk should have from 3 to 3 perfect ears. Price, pkt., 8c; lb., 35c; postpaid.

**HOWLING MOB.** Its peculiar but apt name refers to the vociferous demand for the ears when the originator, Mr. Keller, took them to market. The stalks are of strong, vigorous growth,  $4\frac{1}{2}$  to 5 feet in height, have abundant foliage and generally produce two fine ears to a stalk. The ears measure from 7 to 9 inches in length with twelve to fourteen rows of good sized pearly-white grains. Price, pkt., 8c lb., 30c; postpaid.

**EARLY CHAMPION.** Only a few days later than the extra earlies, bearing large, handsome, twelve-rowed ears. Deep, white, plump, grains of milky tenderness and very sweet. Very productive. Price, pkt., 8c; lb., 30c; postpaid.

**EXTRA EARLY PREMO.** A real Sweet Corn as early as Extra Early Adams. Large, sweet and tender. Plant early, as it will stand some frost. Price, pkt., 8c; lb., 35c; postpaid.

**PEEP O'DAY.** The two points of this new corn are its extraordinary earliness and sweetness. It is also very productive, the stalks bearing from two to five ears, are very dwarf, which admits of their being planted close together. Price, pkt., 8c; lb., 35c; postpaid.

**COUNTRY GENTLEMAN (Shoe Peg).** Has a small cob densely covered with irregular rows of very long, slender grains of fine quality. Price, pkt., 8c; lb., 30c; postpaid.

**CROSBY'S EARLY.** Remarkable early and of the best flavor. Ears of medium size, twelve-rowed, with grains very tender and sweet. Price, pkt., 8c; lb., 30c; postpaid.

**EARLY EVERGREEN.** This is a very popular Sweet Corn. It is in the second early class, comes to maturity fully 10 to 12 days earlier than Stowell's Evergreen and yields large, handsome ears of most delicious flavor. It has a ready sale in the market on account of its handsome appearance and earliness. Price, pkt., 8c; lb., 30c; postpaid.

**EARLY MINNESOTA.** One of the best early sorts for the market or private garden. Stalks four to five feet high and bearing one or two long, eight-rowed ears; kernels very broad, sweet and tender, not shrinking much in drying. Price, pkt., 8c; lb., 30c; postpaid.

**MAMMOTH SUGAR.** Produces the largest ears of any sort; excellent quality, sweet, tender, delicious; late variety. Price, pkt., 8c; lb., 30c; postpaid.

**MAMMOTH WHITE CORY.** Nearly as early but larger than Early Cory. The ears are 12-rowed; grains are broad, very white and of excellent quality for an early sort. Price, pkt., 8c; lb., 30c; postpaid.

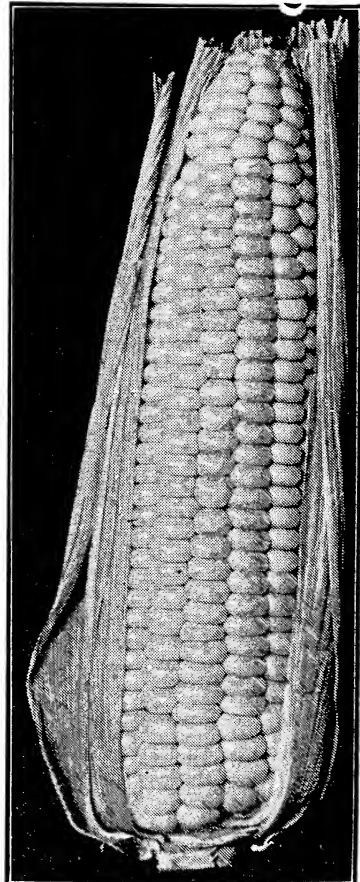
**STOWELL'S EVERGREEN.** The standard main crop variety. It is hardy, large-growing and productive, very tender and sugary, remaining a long time in condition suitable for boiling. Price, pkt., 8c; lb., 30c; postpaid.

### PAPAGO SWEET CORN

We call it Papago because a few kernels were found several years ago on the Papago Indian Reservation south of Tucson, Ariz. It thrives well on heat and grows and produces admirably in an arid section. The stalks grow to a height of about 7 feet, and each one produces from 2 to 4 well filled ears of the sweetest and most delicious corn one ever ate from a cob. In a hot, dry section it will out yield all varieties of Sweet Corn nearly 10 to 1. Price, pkt., 15c; lb., 40c; postpaid.

**EXTRA EARLY PREMO.** A real Sweet Corn as early as Extra Early Adams. Large, sweet and tender. Plant early, as it will stand some frost. Price, pkt., 8c; lb., 35c; postpaid.

**ARISTOCRAT (The Peer of all Sweet Corn).** This delicious sweet corn was first introduced a few years ago. It is a reliable extra sort and an extra early variety, stalks grow 4 to 6 ft. high and ears of large size. Grains are extremely sweet and, being broad, allow of easy scoring with a knife preparatory to buttering when eating from the cob. Price, pkt., 8c; lb., 35c; postpaid.

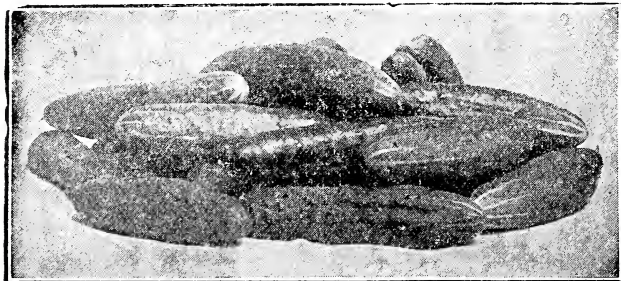


**Aristocrat**

## Cucumbers

One ounce to 50 hills; 2 to 3 lbs. to the acre. Earliest varieties ready for table use in 50 to 55 days from seed. Main crop in 65 to 75 days.

As soon as the weather becomes settled and warm, plant in hills 4 to 6 feet apart each way, with 8 or 10 seeds in a hill; cover half an inch deep, smoothing the hill off with the hoe. Keep the soil well stirred, and when the plants are out of danger of insects, leave 3 or 4 plants to a hill.



Davis New Perfect Cucumber (Field Run)

**EVERBEARING.** Small, very early and productive; solid, few seeds and of fine quality. It continues to bear until frost. Price, pkt., 8c; oz., 15c; 1 lb., 30c; postpaid.

**IMPROVED JERSEY PICKLING.** A standard small variety, dark green, tender, crisp, productive, of fine flavor and uniform size. Price, pkt., 8c; oz., 15c; 1 lb., 35c; postpaid.

**IMPROVED LONG GREEN.** A well known standard, main crop variety, about 9 in. long, of excellent quality, and makes the best of pickles. Price, pkt., 8c; oz., 15c; 1 lb., 35c; postpaid.

**IMPROVED EARLY WHITE SPINE.** For forcing it is preferred to all others. Flesh tender and crisp. Fruit uniform in size, straight and light green, with a few white spines. Price, pkt., 8c; oz., 15c; 1 lb., 35c; postpaid.

**JAPANESE CLIMBING.** The vines can be trained to climb, thus requiring less ground space. The cucumbers are thick, tender, and of a delicate flavor, flesh white; skin dark green, turning to brown and netted when ripe. Price, pkt., 8c; oz., 15c; 1 lb., 35c; postpaid.

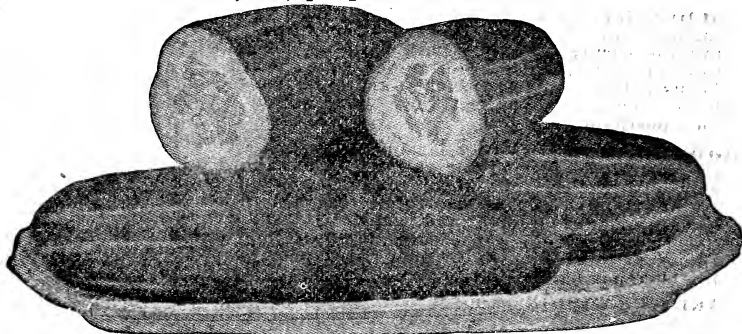
**BOSTON PICKLING or GREEN PROLIFIC.** One of the best pickling varieties; dark green, tender, crisp and productive. Price, pkt., 8c; oz., 15c; 1 lb., 35c; postpaid.

**DAVIS PERFECT.** This cucumber has the merit of being not only a first-class variety for forcing under glass, but is equally as good for out-door culture. The color is a dark, glossy green; in shape it is smooth and symmetrical with an average length of ten to twelve inches. Price, pkt., 8c; oz., 15c; 1 lb., 35c; postpaid.

**EARLY CLUSTER.** A short pale green variety; fruit borne in clusters near the root, containing few seeds. Price, pkt., 8c; oz., 15c; 1 lb., 35c; postpaid.

**EARLY FRAME or SHORT GREEN.** Excellent for table use and for pickling. Fruit straight, smaller at each end; bright green, flesh tender and crisp. Price, pkt., 8c; oz., 15c; 1 lb., 35c; postpaid.

**LEMON CUCUMBERS.** A new kind of cucumber, called the "Lemon". It is similar in color and shape to a lemon, hence its name. Its flavor is delicious and it is never bitter. Excellent for slicing—we know of none equal to it; used in salads and when quite small is often eaten like radishes. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.



Improved Long Green

## CORN SALAD

This is a hardy winter salad, the small leaves being served like lettuce during the cool fall and early winter months. It is used also for garnishing meat dishes in the same manner as parsley and cress. The seed should be sown thinly in drills during August, September and October to supply fresh leaves during the cool fall and winter months. It is quite hardy, and after cool weather sets in can be protected by a thin mulch of hay or straw. Price, pkt., 8c; oz., 15c; postpaid.

## CRESS or PEPPERGRASS

Ready in from 21 to 40 days. Cress should be sown in a sheltered spot quite thick in shallow drills, in a short time it will be fit for cutting. Sow frequently, as it matures rapidly.

**EXTRA CURLED.** This small salad is much used with lettuce. The warm, pungent taste makes a most agreeable addition. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

**WATER CRESS.** Hardy perennial, growing rapidly on the banks of streams or ponds. Price, pkt., 8c; 1 oz., 35c; oz., 60c; postpaid.



Cress or Pepper Grass

## COLLARD

The Collard makes excellent greens and is also excellent for all kinds of stock. The leaves may be pulled from underneath the head of the plant and cattle, hogs and poultry are very fond of it. Such action does not injure the growing and preserving of the Collard for human food. Price, pkt., 8c; oz., 20c; 1 lb., 60c; postpaid.

## CHIVES

**CHIVES (Schnittlauch).** A perfectly hardy plant, something like an onion. Tops are cut off from time to time and used to flavor soup. Price, seed, pkt., 8c; clumps, 25c each; postpaid. By express, \$1.50 per dozen.

## CHUFAS or EARTH ALMOND

In sweetness and flavor very much resembles a coconut or almond and greatly liked by all children. Vary in size from a large pea to a hazelnut. The nuts grow under and very near the surface of the ground, easily reached and relished by pigs and poultry. As soon as the crop is grown, turn the animals into the field, thus saving the labor of harvesting and feeding, and when either hogs or chickens get a taste of them, they will go over the whole field in search for them. Very prolific, nutritious and fattening. Price, pkt., 8c; 1 lb., 20c; 1 lb., 35c; 1 lb., 60c.

**REMEMBER ALL 8c PACKAGES OF SEED LISTED IN THIS CATALOG ARE ALSO 2 FOR 15c**

**TO MAKE A HOT BED, SEE PAGE 2**

## Egg Plant

One ounce to 1,000 plants. Ready for table in 145 to 160 days.

A tender plant, start early in hotbed or in the house. Plant out early in June, care being necessary to prevent plants being chilled by the change.

**BLACK BEAUTY** Is ten days to two weeks earlier than New York Improved. The fruits are large, of a rich, glossy purplish black color, very handsome and attractive. It is entirely free from spines. Price, pkt., 8c; oz., 35c; postpaid.

**IMPROVED NEW YORK PURPLE.** (See cut.) Entirely spineless. Low growing plants, stalky and branching, bears early and almost continuously. Fruits are large, satiny smooth and a rich purple color. Price, pkt., 8c; oz., 30c; postpaid.

## ENDIVE

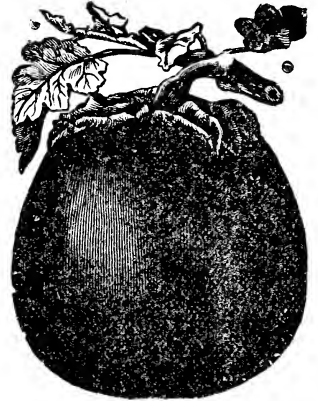
One ounce to 100 feet of drill. Ready for table in 43 to 50 days from seed.

One of the best autumn and winter salads. Sow from June until August,  $\frac{1}{2}$  inch deep in drills 14 inches apart and thin out to 1 foot apart in rows. When nearly grown, bleach by tying tips of leaves together.

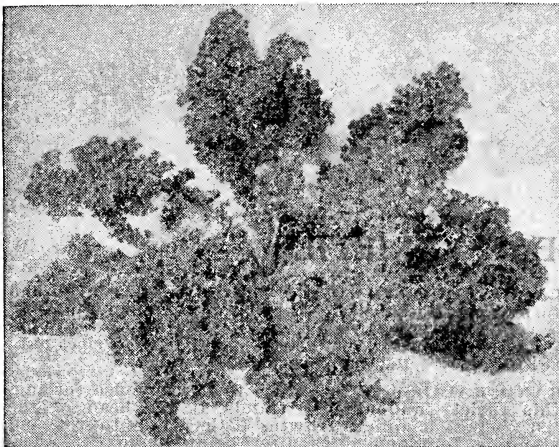
**GREEN CURLED, WINTER.** Very hardy; leaves dark green and tender. Much better than the common varieties. Price, pkt., 8c; oz., 25c;  $\frac{1}{2}$  lb., 60c; postpaid.

**MOSS CURLED.** Leaves very finely curled. Price, pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 60c; postpaid.

**WHITE CURLED.** Very tender when cut young; blanches readily. Price, pkt., 8c; oz., 25c;  $\frac{1}{2}$  lb., 50c; postpaid.



New York Purple



Dwarf Kale

## KALE or BORECOLE

This is a popular boiling-green for fall, winter and early spring use, resembling cabbage in flavor. The plant is entirely hardy in well-drained soil and can be grown easily from seed planted during the summer and fall months. The plants are usually cut off for use when the leaves are 6 inches in length. The sweetness and flavor of these greens are improved by freezing weather. One ounce should produce 4,000 plants.

**DWARF KALE.** The leaves are curly, bright green, very tender, and delicate flavor. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 60c; postpaid.

**TALL GREEN CURLED.** About 2 feet high, with numerous dark green curled leaves. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 85c; postpaid.

## FINOCCHIO

**FLORENCE FENNEL.** A delicious vegetable which should be more largely grown in this country. It is extensively used in Italy as a salad, and also may be served boiled. When the enlargement of leaf stalk, at base of stem, is about the size of a hen's egg it should be earthed up so as to cover half of it and in about 10 days cutting may be commenced and continued as the plants increase in growth. The flavor is somewhat like celery but it has a sweet taste and delicate odor. Price, pkt., 8c; oz., 40c;  $\frac{1}{2}$  lb., \$1.25; postpaid.

## GARLIC

The sets should be planted in spring. Cultivate same as onions. Sets, per oz., 5c;  $\frac{1}{2}$  lb., 20c; lb., 75c; postpaid.

## KOHLRABI

One ounce to 300 feet of drill, and makes 3,000 plants

A vegetable intermediate between the cabbage and turnip. The edible bulb is served like turnip. Sow from May to July in rows 18 inches apart, and thin. Cultivate the same as cabbage.

**EARLIEST SHORT-LEAVED WHITE VIENNA FORCING.** This variety is especially adapted for early work and forcing; delicate flavor, flesh white and very tender. Price, pkt., 8c; oz., 20c;  $\frac{1}{2}$  lb., 85c; postpaid.

**EARLY WHITE VIENNA.** A favorite sort; flesh white and tender. Price, pkt., 8c; oz., 20c;  $\frac{1}{2}$  lb., 86c; postpaid.

**EARLY PURPLE.** Purple outside with white flesh. Price, pkt., 8c; oz., 20c;  $\frac{1}{2}$  lb., \$2.00; postpaid.

## HORSERADISH

This splendid appetizer cannot be over-estimated. 25 plants are sufficient for a family. The roots grow and increase rapidly in size with each succeeding year. Plant in a corner of the yard where you wish it to grow and you can begin digging the next year. Postpaid, 50c doz.; not postpaid, 40c doz.

## LENTILS

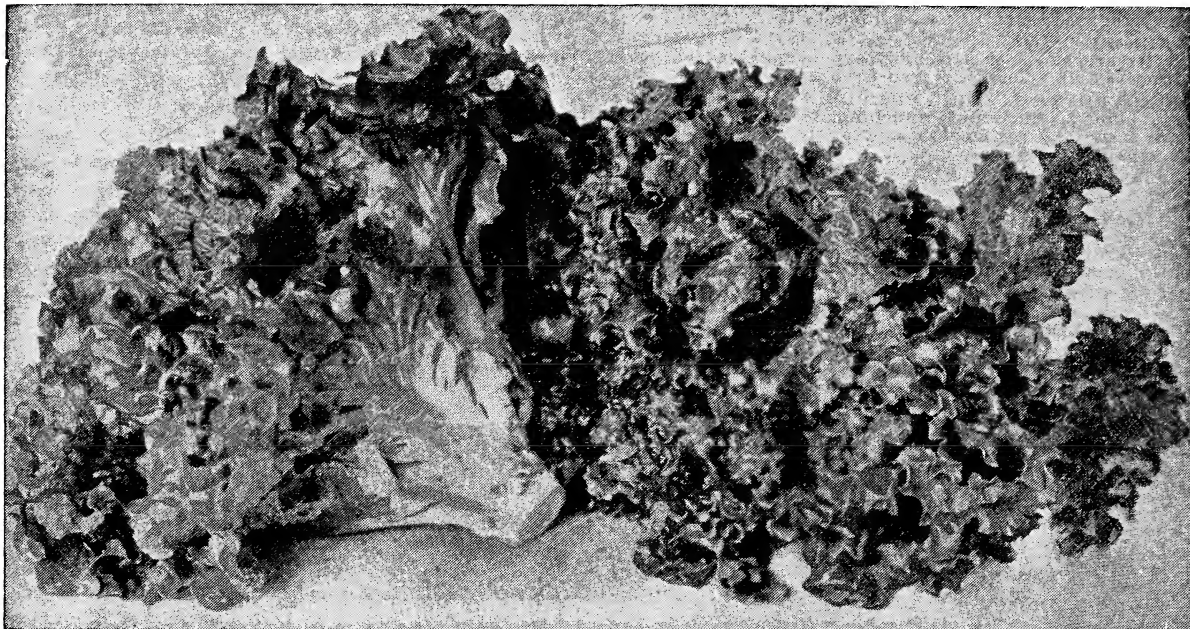
A leguminous annual, resembling peas, with round, flat seeds, which are much used for soup and making a delicious dish; they are also splendid for pigeon feed. The stems and leaves make good fodder. Succeeds well on dry soil. Price, pkt., 8c; lb., 50c; postpaid. By express, 5 lbs., \$2.00.



The **BEE SUPPLY DEPARTMENT** we recently added has proven a big success. We carry a full line of **A. I. Root's Bee Supplies** which have given the best of satisfaction. A full list of supplies on pages 67 to 73.

# Lettuce

One ounce to 400 feet of drill. Ready for use in 3 or 4 weeks; marketable size 60 to 75 days from seed.



## CURLED OR LOOSE LEAF VARIETIES

**SIMPSON'S EARLY CURLED.** Leaves broad, frilled and blistered. Light green, sweet, tender, and well flavored. An early, erect growing sort. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

**EARLY PRIZE HEAD.** Forms a mammoth plant, in which even the outer leaves are crisp and tender; color bright green tinged with brownish red. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

**EARLY CURLED SILESIA.** An early, erect growing and loose heading lettuce, especially adapted for out door planting, and can be used when very young. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

**BLACK SEEDED SIMPSON.** The leaves are large and form a compact mass. They are thin, tender and of a very light green color. Well adapted for growing under glass or for very early spring use. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

**GRAND RAPIDS.** As a lettuce for greenhouse forcing, this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being fit to cut. The plant is upright and forms a loose cluster of large, light leaves. It is also excellent for out door planting. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

## CABBAGE OR HEADING VARIETIES

The best results with head or cabbage sorts is only obtained when the plants are transplanted several times.

**BIG BOSTON.** A large heading, forcing sort, very hardy and vigorous, with broad, comparatively smooth, thin and very hard, bright green leaves. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 45c; postpaid.

**ICEBERG.** Makes a large, handsome, crisp head, conical in shape, tightly folded and well balanced; outer leaves fringed. Very highly esteemed for its beautiful appearance and mild flavor, even during hot summer months. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

**HANSON.** Forms a large, flat head, resembling that of cabbage and so slow to form a seed stalk that it often fails to seed at all. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

**DENVER MARKET.** An early variety of Head Lettuce, either for forcing or open ground. It forms large heads, of good light green color. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

**CALIFORNIA CREAM BUTTER.** Forms round, crisp, solid heads, of buttery flavor, medium early. One of the best summer varieties of head Lettuce. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

## GARDEN HERBS

Herbs delight in a rich, mellow soil. Those marked with a \* are perennial. Sow early in spring in shallow drills, one foot apart; when up a few inches thin out; cut just before they come into full blossom, tie in bunches and hang up or spread thinly.

**DILL.** Leaves and seed are used in soups, sauces and pickles. It reseeds itself each year. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 50c; postpaid.

\***LAVENDER.** Aromatic, medicinal herb Price, pkt., 8c; oz., 20c;  $\frac{1}{2}$  lb., 75c; postpaid.

**MINT.** The old fashioned mint has been growing in favor of late years. Used in flavoring meats, etc., also for mint sauce. Easily grown. We offer only roots. Price, per clump, 20c; 2 for 35c; postpaid.

\***MAJORAM** (Sweet). Leaves and shoots used for seasoning. Price, pkt., 8c; oz., 20c;  $\frac{1}{2}$  lb., 75c; postpaid.

**LEEK.** (American Flag). The Leek is a very hardy

plant with a sweet onion-like flavor. It does not make bulbs, but the plant has a long, thick neck somewhat resembling the young growth of the onion in the spring. These necks or stems are blanched in the fall by drawing the earth up about them as the plants increase in growth. Price, pkt., 8c; oz., 15c; postpaid.

\***SAGE.** Most useful herb for seasoning. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c; postpaid.

**SUMMER SAVORY.** Used for flavoring soups. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 75c; postpaid.

\***THYME.** For medicinal use. Price, pkt., 8c; oz., 50c;  $\frac{1}{2}$  lb., \$1.50; postpaid.

**VEGETABLE PLANTS LISTED ON PAGE 2**

## Musk Melons

One ounce to 50 hills; 2 to 3 pounds per acre. Earliest varieties ready in 90 to 100 days from sowing. General crop requires 115 to 140 days.

Melons thrive best in the light, rich soil. Plant when the ground has become warm and dry.

The letter G following name signifies green meat; S, salmon colored.

**ROCKY FORD. G.** This variety, well shown by our illustration, has everywhere been in great demand. Hundreds of carloads have been shipped from the little town of Rocky Ford, Colo., to the large cities, taking the place of other varieties. Of just the right size for table use. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25; postpaid.

**OSAGE or MILLER'S CREAM. S.** A standard sort, medium size, oval, dark green, netted and slightly ribbed. The flesh is thick, and firm, rich salmon colored, highly flavored and delicious to the rind. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25; postpaid.

**EMERALD GEM. S.** Where an extra melon for home use is wanted, nothing can equal this superb sort. Of medium size, outside skin emerald green and smooth. Ripens clear through to rind, which is very thin. Flesh is thick and juicy, of nice salmon color. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25; postpaid.

**ROBINSON'S DELICIOUS GOLD LINED ROCKY FORD CANTALOUPE.** This strain of the Eden Gem type is the result of several years' selection by one of the most progressive farmers of Rocky Ford, Colo. Its shape is ideal, very slightly oval, no ribs and it is heavily netted over the entire melon. It is thick meated, fine grained and sweet; color green with a gold margin next to the seed cavity. Price, pkt., 8c; oz., 25c;  $\frac{1}{4}$  lb., 65c; lb., \$2.00; postpaid.

**CHICAGO MARKET. G.** This we consider the best Nutmeg for earliness of maturity, large and uniform size, thickly netted skin, small seed cavity, deep green flesh, juicy, delicious flavor and free from rot. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25; postpaid.

**EDEN GEM or NETTED ROCKY FORD CANTALOUPE G.** This magnificent new musk melon is a selection of the old Rocky Ford, which it completely surpasses in lusciousness, yield, carrying, and good selling qualities. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50; postpaid.

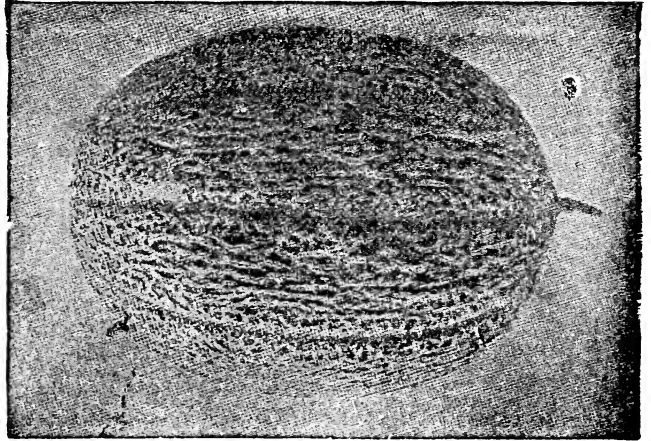
**BANANA CANTALOUPE. S.** The melons grow 24 to 30 inches long; stand summer sun as no other cantaloupe will, and continue to bear until late in the season. The salmon-colored flesh is thick and of delicious banana-like flavor. Price, pkt., 8c; oz., 16c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50; postpaid.

**BURRELL'S GEM. S.** Very much like Rocky Ford, but has orange colored flesh. The flesh is fine grained and spicy. It is a good keeper. Fruits large and somewhat elongated. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.75; postpaid.

**NUTMEG. G.** Fruits round, seven inches in diameter, slightly flattened at the ends. Well ribbed and heavily netted; thick pale-green flesh, sweet and melting. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25; postpaid.

**SANTA CLAUS MELON.** Just think of having a melon to eat with your Christmas dinner! But this is what is claimed by the originator of this wonderful novelty. There is no seed cavity. The seeds are embedded in a jelly-like pulp. The light green flesh is absolutely stringless; its flavor excels anything in the melon line; it is in a class by itself and is beyond description. This melon should become more popular than the Rocky Ford, because it is more delicious and it is a Christmas melon. Price, pkt., 8c; oz., 20c; postpaid.

**NEW BUSH.** For description and price see page 2.



Rocky Ford

**HANEY DEW MELON.** The original seed of this new melon was secured from a melon shipped from Africa to New York City. This seed was planted at Rocky Ford, Colo., and crossed with the genuine, original "Rocky Ford" cantaloupe by pollenization. The following season this hybrid seed was again crossed with the improved Hybrid Cassaba. It was named "Honey Dew" because it is as sweet as honey and has the mingling of several flavors,—pineapple, banana and vanilla predominating. The average size of the melon is six inches in diameter and seven to eight inches in length, weighs five to six pounds. The seed cavity is very small, the rind impervious to water, the melon does not shrink in weight, is not easily bruised and is a splendid shipper. Yields at the rate of 8,000 to 10,000 melons per acre. The melon slips from the vine when ripe and will keep for several weeks; the late maturing ones may be kept until Christmas. Will grow where Rocky Ford varieties will thrive. Price, pkt., 15c; oz., 35c;  $\frac{1}{4}$  lb., \$1.30; lb., \$4.90; postpaid.

**EXTRA EARLY HACKENSACK. G.** Ten days earlier than Hackensack. Melons weigh 4 to 10 lbs. each. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25; postpaid.

**HACKENSACK. G.** A popular variety of large size. It is round in shape, flattened at both ends, of most delicious flavor and wonderfully productive. Flesh green. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25; postpaid.

**PAUL ROSE or PETROSKY. S.** It is an ideal melon, form oval, about 5 inches in diameter. It has the flesh color and quality of Osage with a flavor entirely its own. It has no equal as a market melon for professional growers. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00; postpaid.

**VINE PEACH. S.** The fruit is a bright orange color, oval-shaped and about the size of an ordinary peach, which it resembles very much. These melons are not eaten raw unless when dead ripe, but are unequaled for pies, preserves or sweet pickles. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50; postpaid.

## Mushroom Spawn

The Mushroom is a delicious edible fungus of which there are numerous varieties. We handle the ordinary commercial variety of a creamy white color with loose gills which underneath are of pinkish-red, changing to liver color. These can be grown in a warm cellar or enclosed shed in which an even temperature can be maintained of fifty or sixty degrees and where a plentiful supply of fresh horse manure for making the bed can be obtained.



### AMERICAN (Pure Culture Spawn)

Produced by the new grafting process, from selected and most prolific varieties, has never failed to run. Price per brick, (enough for 8 square feet), 35c; 5 for \$1.50; by mail, postpaid. By express, at buyer's expense, per brick, 25c; 6 bricks, \$1.40; 12 bricks, \$2.75.

### MUSHROOM CULTURE

A most practical work on the growing of mushrooms. Describes how they may be grown with profit by market gardeners, and also how to grow them for home use. Illustrated 32 pages. Price, 25c; postpaid.

# Watermelons

Ready from 90 to 140 days from seed. One ounce to 30 hills; 4 lbs. per acre.

To get good strong vines early in the season, make large, well drained hills of earth, made very rich, about eight feet apart. In these plant the seed as soon as the ground is warm and dry, and carefully protect the young plants from insects, and hasten their growth by the use of liquid manure. Is, light seed; ds, dark seed.

**BLACK BOULDER.** ds. It is enormously productive, nearly round in shape, reaching a mammoth size, with rich dark green skin; flavor equal to any melon, and shipping qualities excellent. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 80c; postpaid.

**CUBAN QUEEN.** ds. One of the latest varieties, skin striped dark and light green; heavy cropper; flesh bright red, luscious. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 80c; postpaid.

**DUKE JONES (Jumbo).** ls. Very large, nearly round, dark green; flesh solid, deep red, and of fine quality. Very productive. A good shipper. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 80c; postpaid.

**THE DIXIE.** ds. This watermelon is the best shipping melon grown, being even larger, earlier and far more productive than the Kolb's Gem, which has heretofore been considered the best melon for shipping. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**SWEET HEART.** ds. Vine vigorous and productive, ripening its fruit early; fruit large, oval, very heavy, uniformly mottled. Green and light green; rind thin, but firm, flesh bright red, firm and solid but very melting and sweet. The melons retain their good quality for a long time. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 80c; postpaid.

**ALABAMA SWEET.** ls. This is a large oblong melon; color, dark green with faint lighter stripes. Being of good size though not ungainly, it is first class for shipping purposes. Its flavor is simply delicious, it is entirely stringless. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**ICE CREAM (Peerless).** ls. It is medium in size, almost round; the skin is pale green; slightly mottled; flesh bright scarlet, solid to the center. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**MEIVER'S WONDERFUL SUGAR.** ls. The melons attain a great weight, are of a very handsome appearance, never crack or lose their fine flavor. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**COLORADO PRESERVING CITRON.** ds. This is a large fruiting strain of citron for preserving. Flesh clear white and very solid. Green seed. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**PHINNEY'S EARLY.** Very early, quality good; hardy. Bears abundantly, medium sized, oblong melons with thin, smooth rind; flesh pink and tender. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**KLECKLEY'S SWEETS.** (Monte Cristo.) ls. Large, oblong melon, skin dark green. The rind is only about  $\frac{1}{4}$  inch in thickness. The scarlet flesh is sweet and sugary and is of such texture that it leaves no strings of pulp in eating. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 90c; postpaid.

**HALBERT'S HONEY.** ls. A splendid sort for home use or local market. Vine vigorous and productive; fruit large and oblong; color dark glossy green. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.



Tom Watson

**TOM WATSON.** ds. The Tom Watson melon has in a few years become one of the most popular of all shipping melons. The fruits are similar in shape, color and splendid quality to the Kleckley Sweets, but average larger in size and have a tougher rind, making them especially adapted for shipping. They ripen but a few days later than the Kleckley Sweets. It is one of the very best melons to grow for the market and will command highest prices. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**GYPSY or GEORGIA RATTLESNAKE.** ls. One of the largest, oldest and most popular sorts, especially in the South. Fruit very long, of light green color, distinctly striped and blotched with a darker shade. Flesh bright scarlet. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 80c; postpaid.

**COLE'S EARLY.** This is a very choice melon for the home garden and can be grown farther north than any other variety. The flesh is bright red, crisp and very delicate in texture. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**KENTUCKY WONDER.** One just cause for criticism of many of the new melons is that, for the most part, they have been, at the best, slightly improved strains of some old and well known sort. This cannot be said of Kentucky Wonder. It is distinct, and the melon itself proves it. In shape it is oblong, attaining a good size; skin dark green and beautifully marked. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**KOLB'S GEM.** For many years a favorite sort among Northern market growers. On account of its excellent shipping qualities it is extensively grown for that purpose. Nearly round; color a dark green with lighter narrow strips. Very thin rind; flesh bright red, good flavor. Our see dis choice. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**MOUNTAIN SWEET.** The old standard still quite popular in the North, where the large fruited Southern sorts do not ripen. Early, fruit large, oval, rind dark green, flesh scarlet. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

## MUSTARD

**CHINESE.** The immense leaves grow rapidly, and can be cut frequently until killed by frost. Leaves are eaten boiled, like Spinach. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**MAMMOTH SOUTHERN CURLED.** The large curled leaf variety, popular in the South, where the seed is

sown in the fall for spring use. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

**WHITE.** A small pungent salad; the seed is also used for flavoring pickles, etc. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., 85c; postpaid.

### LINCOLN BRAND EXCELLENCY

We want to impress on all our customers the necessity of buying pure seeds. We suppose only such seeds as we find shown a high percentage of purity. This is a very important matter to the planter. Quality in your seed counts more than in almost anything else. Beware of cheap seeds. The best is always the cheapest. When you are offered cheap lots of seeds you are almost sure to get poor quality. We reclean all our seeds before sending them out, and put them up in first class bags; therefore, they are worth more than seeds that are not cleaned. It will pay you to take these facts into consideration when you decide from whom you are going to order your seeds the coming season. This guarantee of excellency applies also to all our supplies. The back pages of this book will be found filled with poultry foods and supplies, also all things used by the market gardener and fruit grower.

## Onions

One ounce to 300 feet of drill; 4 to 5 lbs. to the acre Ready for green onions in 60 days. Main crop matures in 130 to 190 days from sowing.

The onion is most successfully grown in a rich, sandy loam. Continued cultivation upon the same plot of ground contrary to the general rule, rather improves the crop than otherwise. As early as the ground can be worked in the spring, sow the seeds in drills 14 inches apart, covering half an inch. When plants can just be seen in the rows, commence hoeing, skimming the surface. Subsequently weed thoroughly and carefully by hand. When tops die, pull onions and spread evenly over the ground; stir or turn until thoroughly dried, then cut the tops off  $\frac{1}{2}$  inch from the bulb.

**GLOBE WETHERSFIELD, RED.** Remarkable for size, earliness, productiveness, beauty of color, perfection of shape, and long keeping qualities. Possesses all the excellent qualities of Red Wethersfield and Yellow Globe Danvers. Price, pkt., 8c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10; postpaid.

**LARGE RED WETHERSFIELD.** This is the standard and favorite variety. Large size, deep, purplish white, stronger flavored than large varieties. Very productive and an excellent keeper. Price, pkt., 8c; oz., 35c;  $\frac{1}{4}$  lb., \$1.10; postpaid.

**RED BERMUDA.** Bulbs of this variety are similar in form and early ripening to the Bermuda White but grow large in size, ranging from three to four inches larger in diameter; very flat and of a light pink color. The flesh is white, slightly suffused with pink. Price, pkt., 8c; oz., 45c;  $\frac{1}{4}$  lb., \$1.25; postpaid.

**SOUTHPORT LARGE RED GLOBE.** The handsomest and most richly colored of all red onions. Are remarkably uniform in size. The extra dark rich coloring makes a most attractive appearance when prepared for market. The plants are thin-necked, ripening down to a hard solid ball—insuring the largest percentage of market onions and the best keeping qualities. Flesh fine grained, mild, tender. Price, pkt., 8c; oz., 50c;  $\frac{1}{4}$  lb., \$1.25; postpaid.

**SOUTHPORT WHITE GLOBE.** Of all our American varieties of market onions, this generally commands the highest price. Of true globe form, the onions are two or two and a half inches in diameter, with a thin, delicate skin of purest paper whiteness. The flesh is crisp, fine grained, snowy white in color and very mild flavor. Price, pkt., 8c; oz., 50c;  $\frac{1}{4}$  lb., \$1.50; postpaid.

**SOUTHPORT YELLOW GLOBE.** Conspicuous, large, golden yellow spheres, of exceptional beauty; a late, large, main crop variety; best keeping quality. The buyer of a packet and the planter for carload shipments are equally enthusiastic over this gem among onions. Price, pkt., 8c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; postpaid.

**WHITE PORTUGAL or SILVER SKIN.** Standard white variety for general culture. Bulbs grow to good size, ripening early and quite evenly. A good keeper; handsome appearance. Price, pkt., 8c; oz., 50c;  $\frac{1}{4}$  lb., \$1.50; postpaid.

**WHITE QUEEN.** This is the best of all for small pickles and the earliest ripening onion in cultivation. The bulbs, of a pure paper-white, are generally very small. Price, pkt., 8c; oz., 40c;  $\frac{1}{4}$  lb., \$1.50; postpaid.

**YELLOW GLOBE DANVERS.** A fine productive variety of medium size, skin coppery yellow, flesh white, comparatively mild and well flavored. Best of keepers. Price, pkt., 8c; oz., 35c;  $\frac{1}{4}$  lb., \$1.50; postpaid.

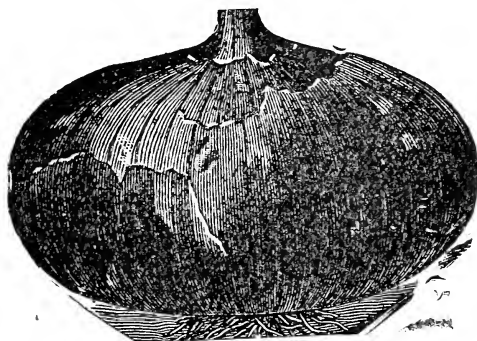
## OKRA or GUMBO

One ounce to 40 feet of drill. Ready for table in from 90 to 105 days.

The pods when young are used in soups, stews, etc. The plants are of the easiest culture. Sow at the usual time for all tender vegetables, in drills two inches deep, setting the plants 2 feet apart.

**IMPROVED DWARF.** An early variety, pods comparatively short but very numerous. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; postpaid.

**WHITE VELVET.** Pods round, smooth, large and attractive; produced in great abundance. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; postpaid.



Red Wethersfield

**WHITE BERMUDA.** The bulbs are quite broad and flat in form. The color is not a clear white, as in our American varieties, but rather a pale straw; fresh crisp, solid and mild in flavor and early ripening. Price, pkt., 8c; oz., 50c;  $\frac{1}{4}$  lb., \$1.25; postpaid.

**AUSTRALIAN BROWN.** Distinct from all others; is nearly round, wonderfully hard and solid; ripens extremely early; never makes scullions; of medium size, skin a deep amber brown, flesh, mild and agreeable. Price, pkt., 8c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00; postpaid.

**EXTRA EARLY RED FLAT.** Matures very early, yields abundantly, and is of mild flavor; medium size; deep red and solid. Price, pkt., 8c; oz., 30c;  $\frac{1}{4}$  lb., \$1.00; postpaid.

**MAMMOTH PRIZE TAKER.** One of the largest, handsomest, finest flavored, and in every way a choice variety of yellow onion, having been grown to enormous weight of over 6 lbs. Of a clear, bright straw color, and uniform, perfect globe shape. Price, pkt., 8c; oz., 40c;  $\frac{1}{4}$  lb., \$1.00; postpaid.

**MAMMOTH SILVER KING.** Averages 15 to 22 inches in circumference and weigh 2 $\frac{1}{2}$  lbs. each. Matures early and is uniformly large and of good shape, is flat but thick. Skin is clear silver white, flesh snowy white. Price, pkt., 8c; oz., 50c;  $\frac{1}{4}$  lb., \$1.50; postpaid.

**EGYPTIAN WINTER or RED PERENNIAL.** A hardy onion for September and October planting. Orders booked now. Entirely distinct from all other varieties of onion; being perfectly hardy everywhere. They should be planted in the fall and left in the ground all winter. These sets never form large bulbs but produce the earliest, small, green onions, ready for home or market use weeks ahead of any other sort, unsurpassed in sweetness and tenderness. It is best to replant every autumn and use both roots and tops the following spring. Slight winter protection is required, just a few inches of coarse litter spread on the crowns after the ground freezes to prevent root heaving. Orders sent before fall will be filled in September. Price, pt. 20c; qt., 35c; 2 qts., 60c; postpaid.

## ONION SETS

### PRICES—Postpaid

|                      |            |            |
|----------------------|------------|------------|
| Red Bottoms .....    | \$0.20 pt. | \$0.35 qt. |
| Yellow Bottoms ..... | .20 pt.    | .35 qt.    |
| White Bottoms .....  | .30 pt.    | .40 qt.    |
| Winter Tops .....    | .20 pt.    | .35 qt.    |

Write us for prices on onion sets in larger lots.

FOR BEE SUPPLIES, SEE PAGES 67 to 73

## Peas

Two lbs. to 100 feet of Drill. 85 lbs. per acre.

**CULTURE**—You will have the best results with early peas on light warm soil—but the main crop will do better on a fairly heavy soil that will retain moisture. Avoid too much nitrogen fertilizer such as fresh manure—as that causes heavy vine growth at expense of pods. A plot prepared the fall before is best. Sow early kinds as soon as possible in rows 2-3 inches deep and 2½-3½ feet apart, and for succession every two weeks until June 15. The very earliest varieties, planted in August, will often give a good fall crop.

The taller varieties will do better if supported by brush or wire. Some plant in double rows (6 inches apart) and support the two together. The smooth sorts are hardiest, but wrinkled varieties are of better quality. Planting distances and depths depend on variety and type of soil.

Those marked \* are wrinkled and sweet.

### EXTRA EARLY VARIETIES

**ALASKA.** 2 feet. The earliest blue pea, of good flavor, dark green pods, well filled and ripen uniformly. One of the very best for market gardeners. Price, pkt., 8c; lb., 30c; postpaid.

\***AMERICAN WONDER.** 1 foot. Of the finest quality. Very prolific, with pods of fine size and form; requires no brush or support. It may be planted a week apart for succession. Price, pkt., 8c; lb., 35c; postpaid.

\***LITTLE MARVEL.** An extremely valuable variety, especially suited to small home gardens and is also a splendid variety for early market gardening. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs and are closely filled with seven to eight peas of extra fine flavor. Price, pkt., 8c; lb., 35c; postpaid.

\***McLEAN'S LITTLE GEM.** 1 foot. An early dwarf, green wrinkled pea, of superior flavor and very prolific. Price, pkt., 8c; lb., 35c; postpaid.

**EARLY DWARF.** This is one of the newest early dwarf peas. Similar to Sutton's Excelsior except has a dark pod; very sweet and very productive. Height 1½ feet. Price, pkt., 8c; lb., 35c; postpaid.

**TOM THUMB.** 9 inch. A smooth, white sort, very dwarf. Price, pkt., 8c; lb., 35c; postpaid.

\***NOTT'S EXCELSIOR.** 1 foot. Earliest wrinkled pea; of close, compact, dwarf growth. The pods average 3 inches in length, and are well filled to the squared ends, with large peas, unusually sweet. It not only yields heavily in pods, but also in shelled peas. Price, pkt., 8c; lb., 35c; postpaid.

**FIRST AND BEST.** Height 2½ to 3 feet. Standard, white seeded extra early. Vines are vigorous and hardy, bearing from three to seven pods, containing from 5 to 7 peas of good quality. Price, pkt., 8c; lb., 35c; postpaid.

\***DUCHESS OF YORK.** A very fine, large sweet pea, maturing very closely with Gradus, but much more productive. Pods large, dark green, pointed and well filled. H. 3 ft. Price, pkt., 8c; lb., 35c; postpaid.

**MAMMOTH PODDED EXTRA EARLY.** On the order of Dutchess of York, but pods one-fourth larger. Matures practically with Dutchess of York and much more productive; seed large, smooth, white. Bound to take first place as a leading market gardener's first early pea. Height 3 feet. Price, pkt., 8c; lb., 35c; postpaid.

### SECOND EARLY

**ABUNDANCE.** Height, 2 to 2½ feet. Seed green, wrinkled. This is a heavy yielding variety and is a capital sort for family use, possesses great sweetness and fine table qualities. Price, pkt., 8c; lb., 40c; postpaid.

\***EVERBEARING.** 2 feet. Peas are very large, of excellent quality. For continuance and profusion of bearing this variety is unexcelled, which gives especial value for the late summer and autumn use. Price, pkt., 8c; lb., 30c; postpaid.

\***SUTTON'S EXCELSIOR.** This handsome wrinkled pea is so hardy, it may safely be planted as early as the hard-seeded "Extra Earlys." The plants are dwarf, about 14 inches high, very stout, exceedingly productive, and the quality is all that could be desired. Price, pkt., 8c; lb., 35c postpaid.

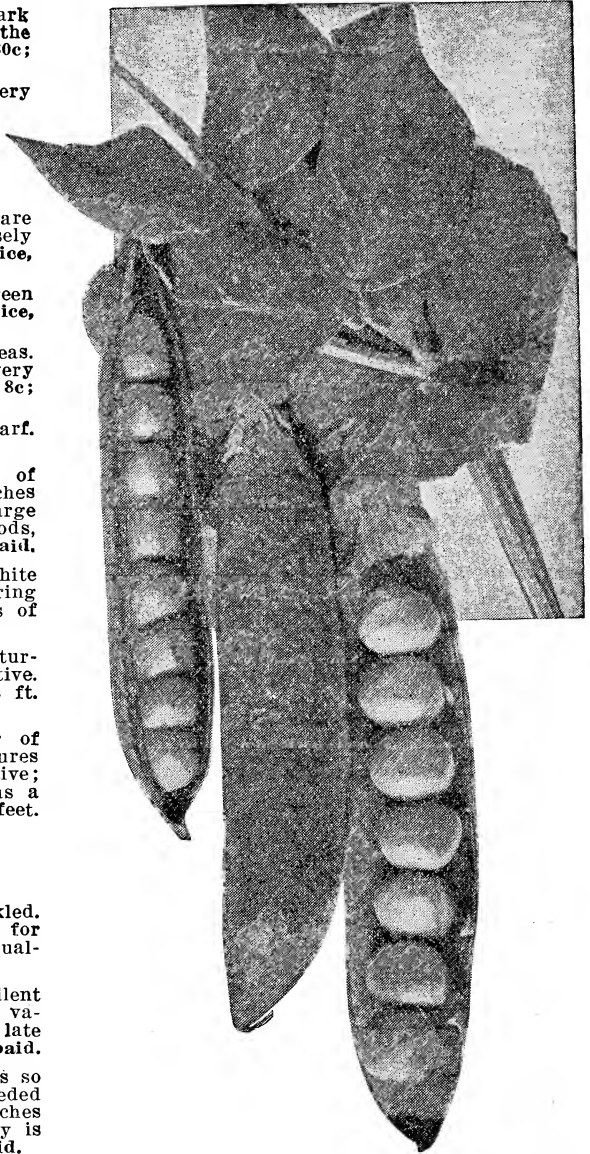
### LATE OR MAIN CROP VARIETIES

\***CHAMPION OF ENGLAND.** 4 feet. Vines are very robust. Bears many pods, straight and well filled with tender peas, which are sweet and of excellent quality. It is a profuse bearer, most reliable late sort. Price, pkt., 8c; lb., 30c; postpaid.

\***TELEPHONE.** 4 feet. Immensely productive. Pods are very large, so well filled with peas of excellent quality that it has become one of the most prominent late peas to be grown for market. Price, pkt., 8c; lb., 30c; postpaid.

**WHITE MARROWFAT.** 4 feet. Vines are very robust. Bears many pods, always well filled. The peas are of ordinary quality. Price, pkt., 8c; lb., 30c; postpaid.

**MELTING SUGAR.** This is the best of the edible peas. The pods grow about 5 to 6 inches long, are stringless and very tender, and may be used the same as a snap bean; 3 to 4 feet. Price, pkt., 8c; lb., 40c; postpaid.



## Pumpkins

One ounce to 50 hills; 3 to 4 pounds per acre. From 100 to 120 days from sowing to maturity. Pumpkins are planted frequently in connection with a crop of corn, or as a second crop after early peas, etc. The following varieties are all thin and tender skinned, distinct from the hard or thick-shelled squashes.

**CONNECTICUT FIELD.** An immensely productive, large, orange-colored, field pumpkin, usually grown for stock feeding, but it also makes good pies. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; postpaid.

**SWEET POTATO.** Pear shaped, good size, skin creamy white. The seed is all in the cavity of the large end, the thick neck being solid; exceptionally fine quality. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

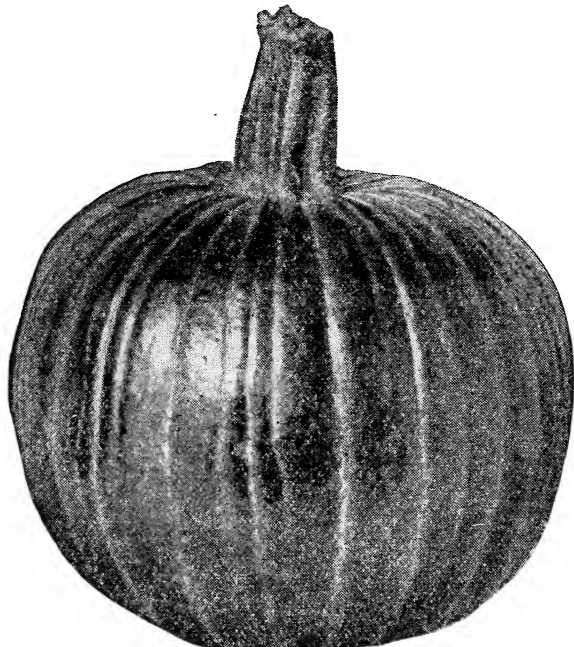
**SMALL SUGAR.** Fruits of small size, averaging about ten inches in diameter, of excellent keeping qualities, flattened, slightly ribbed. Skin deep orange-yellow; flesh sweet. Very early. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

**JAPANESE PIE.** Early and productive, of medium size, large at one end, terminating in a crooked neck. Skin deep green with darker stripes; flesh is a rich salmon color; excellent quality; a good keeper. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; postpaid.

**CUSHAW or CROOKNECK.** (Sometimes called a squash.) Productive; color light cream, sometimes lightly striped; flesh salmon colored; mealy and sweet. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

**LARGE CHEESE.** This is a very popular pumpkin for pies and is quite commonly known as "Sweet Pumpkin." In size they average about as large as the Connecticut Field, but are flat shaped, with creamy buff skin and thick golden flesh; tender, large, hardy and productive. Excellent for table use. Good keeper. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; postpaid.

**KING OF THE MAMMOTHS.** (Jumbo or Potiron.) Weighs from 40 to 150 pounds. Round, flattened at both ends, skin and flesh bright yellow. It makes a good table pumpkin. Good keeper. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 40c; postpaid.



Small Sugar

## PEANUTS

Culture very simple. Plant in light, sandy soil in April, in pods or shelled, two to a hill on level ground. Hill up from time to time as required. Price, pkt., 8c;  $\frac{1}{4}$  lb., 40c; postpaid.

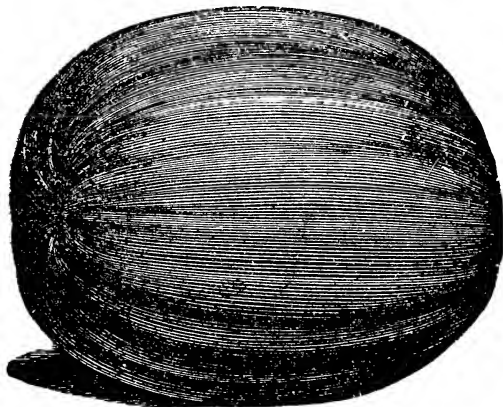
## PARSNIPS

One ounce to 100 feet of drill; 5 or 6 lbs. per acre. Matures in 125 to 140 days from seed.

Sow in April or early May. Cultivate the same as carrots. They may be dug in the autumn and stored for winter use, but if left in the ground till spring are very much improved in flavor.

**HOLLOW CROWN.** Standard variety, roots long, very smooth; white, tender, sugary, and of excellent flavor. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

**IMPROVED GURNEY.** (Improved Half Long.) The roots do not grow so long as the Hollow Crown, but are of greater diameter and more easily gathered. Very smooth, the flesh fine grained and of excellent quality. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.



King of the Mammoths

## PARSLEY

One ounce to 150 feet of drill.

Soak the seeds a few hours in lukewarm water and sow early in the spring in drills one foot apart. Thin out to four inches. A few seeds sown in onion rows use no space. To preserve in winter, transplant to a light cellar or glass frames. Parsley is esteemed for flavoring and for the beautiful appearance of the fresh green leaves as a garnish.

**CHAMPION MOSS CURLED.** The plant resembles a tuft of finely curled moss, leaves extra large, and a rich deep green. Price, pkt., 8c; oz., 25c;  $\frac{1}{4}$  lb., 40c; postpaid.

**EXQUISITE.** Beautiful and closely curled leaves of dark green, flavor excellent. As a pot plant for winter in window or on dining table it is simply "exquisite." Price, pkt., 8c; oz., 30c;  $\frac{1}{4}$  lb., 60c; postpaid.

**TURNIP-ROOTED or HAMBURG.** The root is the edible portion of this variety, and resembles a small parsnip, both in color and shape. Flesh white, a little dry, having a flavor similar to Celeriac. Very hardy and should be cultivated like parsnip. Extensively grown and used for flavoring soups, etc. Foliage same as plain parsley. Price, pkt., 8c; oz., 30c;  $\frac{1}{4}$  lb., 60c; postpaid.



Champion Moss Curled Parsley

# Radishes

One ounce to 100 feet of drill; ready in 18 to 45 days from seed according to variety. Radishes must make a rapid growth to be crisp and tender. For early use sow in the hotbed, half an inch deep. For an early crop in the open ground, sow thinly in drills on rich, sandy soil as early in the spring as it is fit to work. For a succession sow every two weeks.

Varieties marked \* good for forcing.

**EARLY BIRD.** Decidedly the earliest of radishes. Quick growth is one of the main essentials for a crisp and tender radish, and with loose soil and proper culture the Early Bird is ready for the table in twenty days from the time of sowing the seed. Price, pkt., 8c; oz., 25c;  $\frac{1}{4}$  lb., 75c; postpaid.

**\*NON PLUS ULTRA FORCING.** This variety has as small a top and is as early as any in cultivation, making it one of the best for forcing under glass. Roots ready to pull may be had in three weeks and they remain fit for use longer than any other early variety. Price, pkt., 8c; oz., 25c;  $\frac{1}{4}$  lb., 75c; postpaid.

**\*SAXA RADISH.** At last we have found a good forcing radish, which is also very fine for outdoor culture. In repeated trials the Saxa has been found to reach a remarkable size three days earlier than any other forcing variety. The radish at maturity is about  $\frac{3}{4}$  the size of Early Crimson Globe. The roots are round or ball shaped; color deep, fiery scarlet with no tinge of purple. Price, pkt., 8c; oz., 35c;  $\frac{1}{4}$  lb., 75c.

**EARLY SCARLET TURNIP, WHITE TIP.** A most popular and attractive variety, a great favorite in many large markets. The radish is bright scarlet, with white tip, and of a beautiful shape; flesh white, crisp and finely flavored. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

**EARLY SCARLET GLOBE.** A very handsome radish, of rich, bright scarlet color, and oval shape, with very small tops; the flesh is delightfully crisp, juicy and tender. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 60c; postpaid.

**ROSY GEM.** We have a very clean, beautiful strain of this popular sort. It is extremely early, maturing in 25 days. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

**WHITE OLIVE FORCING.** White flesh and skin; crisp and mild flavor. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

**EARLY SCARLET TURNIP.** A round, red, turnip-shaped radish, with a small top and of quick growth. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

**FRENCH BREAKFAST.** A great favorite. Beautiful, bright scarlet, with pure white tip. Oblong in shape, medium size, makes rapid growth. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

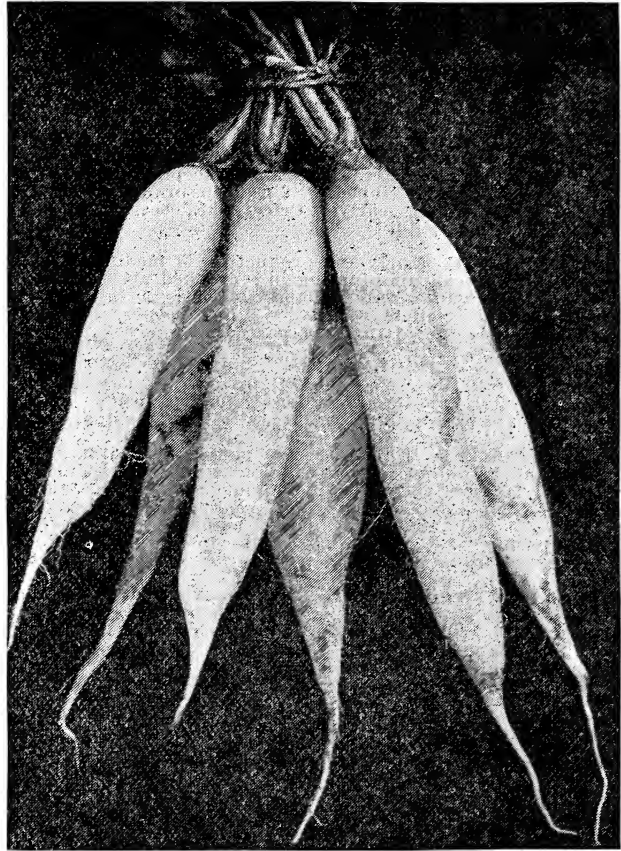
**\*GIANT CRIMSON GLOBE.** A new variety suitable for forcing or early planting out of doors. Will grow to 6 and 7 inches in circumference. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 60c; postpaid.

**NEW SPARKLER.** A distinct, new 18 to 21-day radish; has a beautiful scarlet top; with tip of purest white. Is solid, crisp and sweet, remaining so for a long time. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

**WHITE ICICLE.** Finest of early, pure white varieties. Ready for pulling in about three weeks. Long and slender, clear pure white. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

**EARLY LONG SCARLET, SHORT TOP.** The long, slender, handsomely colored roots are most attractive in appearance, crisp, brittle and of the choicest quality. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

**CHARTIER.** One of the best varieties for growing outdoors. The radishes are in good condition for the table very early and remain hard and crisp until they reach a diameter of about  $1\frac{1}{2}$  inches thus afford-



Icicle

ing good roots for a long time. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

**SAKURAJIMA.** A Japanese radish of immense size; some single specimens of this variety weigh as much as 15 pounds. In shape it is oval with cream colored skin and pure white flesh. Roots are cooked like turnips. Price, pkt., 8c; oz., 35c;  $\frac{1}{4}$  lb., 75c.

**STUTTGART.** Early giant white, large top-shaped, often 4 inches across, flesh and skin white. Remains crisp and solid even after it has attained its full size. Can be stored for winter use. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

**LONG WHITE VIENNA or LADY FINGER.** Pure white, long tapering shape, attractive, sweet, mild, delicious. Matures in 25 days. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 60c; postpaid.

**WHITE STRASSBURG.** Of somewhat larger size and thicker than Vienna. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 65c; postpaid.

## WINTER SORTS

Sow in July. Pull before severe frost and store in damp cellar.

|   | Pkt. | Oz. | $\frac{1}{4}$ lb. |
|---|------|-----|-------------------|
| <b>CHINESE ROSE (Scarlet China).</b> Large oval, bright rose-colored, good keeper.....                | 8c   | 15c | 60c               |
| <b>CALIFORNIA MAMMOTH WHITE.</b> Very large, growing 12 inches long.....                              | 8c   | 15c | 60c               |
| <b>ROUND BLACK SPANISH.</b> Fine globe shape, 3 or 4 inches in diameter, skin black, flesh white..... | 8c   | 15c | 60c               |
| <b>LONG BLACK SPANISH.</b> Black skin; white flesh, long, will keep until spring.....                 | 8c   | 15c | 60c               |

## COLLECTION NO. 3

7 BEST RADISHES, 45c; POSTPAID  
This collection includes 1 packet each of the following best varieties: Early Bird, Early Scarlet Turnip, White Tip, Icicle, French Breakfast, Early Long Scarlet, Crimson Globe and Chinese Rose Winter, all for 45c; postpaid.

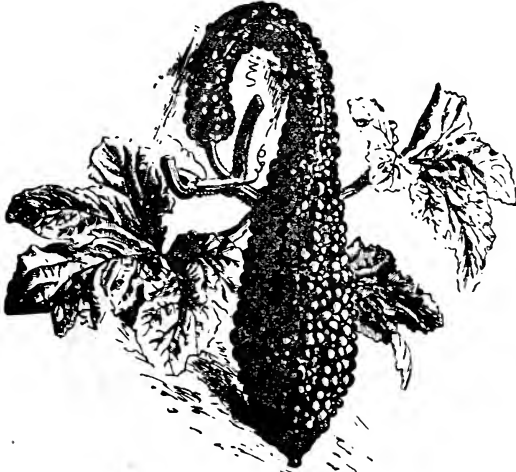
FOR QUANTITY PRICE, SEE PAGES 24 and 25

# Squash

## SUMMER AND EARLY SORTS

One ounce to 20 hills; 4 to 5 lbs. to the acre. Hills 4 feet apart each way. Ready for use in from 55 to 65 days from planting

Any good, enriched soil is adapted to the growth of the Squash. The seed should not be sown in the spring until danger from the frost is past and the ground is warm and thoroughly settled. Keep the earth about the plants loose and clean. Three plants to the hill. For remedy against bugs, see Insecticides, page 65.



Summer Crook Neck

**FORDHOOK.** Small, oblong, shell yellow flesh dry and sweet, and of good flavor. Very early; desirable for either summer or winter use. Price, pkt., 8c; oz., 20c; 1 lb., 60c; postpaid.

**GOLDEN BUSH SCALLOP.** A very early flat, scalloped variety; skin deep yellow; flesh pale yellow and well flavored. Price, pkt., 8c; oz., 20c; 1 lb., 60c; postpaid.

**SUMMER CROOK NECK.** Very early and productive. Fruit about one foot long, with crooked neck and warty surface; color bright yellow. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

**WHITE BUSH SCALLOPED.** (Patty Pan.) Very early; skin white, flesh tender and delicate, bears abundantly. Price, pkt., 8c; oz., 20c; 1 lb., 60c; postpaid.

**DELICATA SQUASH.** A perfect all-season Squash, summer and winter crop on one plant. Produces fifteen to twenty fruits to a vine. Delicious chestnut flavor. Delicata produces an enormous number of fruits of such convenient size that the entire squash can be used at one time. It is ready almost as soon as the early summer sorts, is better flavored, and remains in perfect condition as long as any keeping variety. Its flavor when cooked has been compared to the sweet potato, others liken it to roasted chestnuts, but all agree that it is delicious. The fruits are about 9 inches long, and when ripe are deep yellow, irregularly striped and mottled with a dark olive-green. The flesh is thick, fine texture and pale yellow in color. It is unexcelled for baking—the shape and size make it perfect for this purpose and none better for pies. When boiled it is dry, granular and mealy. Price, pkt., 8c; oz., 26c; 1 lb., 65c; postpaid.

## FALL AND WINTER SORTS

From Planting to Maturity 100 to 125 Days

Gather before injured by the frost for winter use, care being taken not to break the stem from the squash, as the slightest injury will increase the liability to decay. One ounce to 20 hills; 3 to 5 lbs. to the acre. Hills 8 feet apart each way.

**CHICAGO WARTED HUBBARD.** Large size, dark green color, distinguished by a dense covering of knots (warts), a sure indication of splendid quality, thick flesh; good keeper. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

**GOLDEN HUBBARD.** Similar to the above, except that the skin is deep, orange yellow. Flesh fine grained and of exceptional flavor. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

**MAMMOTH CHILI.** Enormous size, round, flattened at ends, skin orange color and slightly ribbed. Flesh thick and deep yellow. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

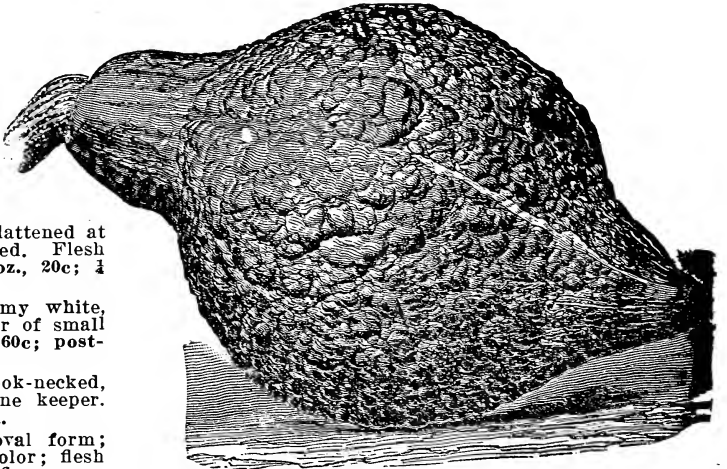
**PERFECT GEM.** Nearly round; skin creamy white, flesh fine grained. Vine bears great number of small squashes. Price, pkt., 8c; oz., 20c; 1 lb., 60c; postpaid.

**WINTER CROOK NECK.** Fruit long and crook-necked, skin dark green mixed with yellow. A fine keeper. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

**BOSTON MARROW.** (Autumnal.) Large, oval form; skin bright orange, mottled with cream color; flesh rich salmon yellow, fine grained and good flavor, unexcelled for pies. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

**MARBLEHEAD.** Resembling the Hubbard, but of a lighter color, and is remarkable for its sweetness, dryness and delicious flavor. Good keeper. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

**SIBLEY.** (Pike's Peak.) Pear-shaped with stem on large end, skin smooth, pale green; flesh thick, orange



Hubbard Squash

color; very dry, rich and delicate flavor. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

**ORANGE MARROW.** The earliest by 10 days of the winter squashes. It is creamy orange in color; fine form, handsome appearance. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.

Gentlemen:

I have been using your seeds for the past seven or eight years and must say they are the best yet, both flower and garden. I always have good luck with your seeds. The neighbors and everyone who sees my garden wonder why I can have such a beautiful one, but it is all due to your good seeds. I have loaned my Griswold Seed Catalog to many that they may get the best of seeds.

Always your customer,

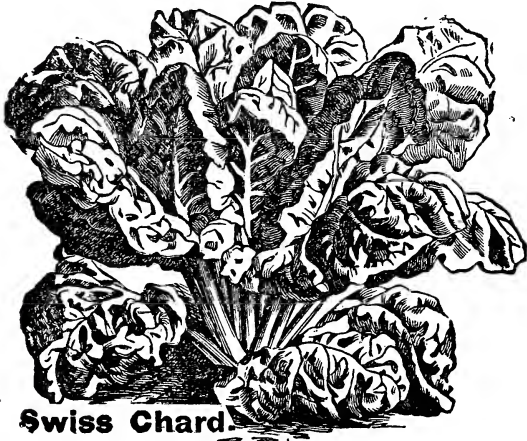
WILLIAM MYERS.

Gosper County, Febr. 18, 1918.

# Salsify or Vegetable Oyster

One ounce to 75 feet of drill

Resembles a small parsnip, and when thinly sliced and cooked is a good substitute for oysters, having a very similar flavor. It succeeds best in light, rich soil. Sow early and quite deep. The leaves when they first appear look like grass, making it specially important to plant in rows.



Swiss Chard.

**MAMMOTH SANDWICH ISLAND.** Grows uniformly to an extra large size. The root is pure white and of superb quality. Invaluable to market gardeners. Price, pkt., 8c; oz., 35c; 1 lb., \$1.00; postpaid.

## SWISS CHARD OR SEA KALE

Far superior to the common beet for greens, of almost the same flavor and equal to spinach. It is much easier to wash and prepare for the table. Sown early in spring in rows; thin seedlings out to 6 inches in the rows; it makes rapid growth of leaves, and is fit for use for greens sooner than any other variety, and can be cut throughout the entire summer. Later the leaves grow very large with broad, flat, wax-like stems and mid ribs, which may be cooked like asparagus, or made into pickles. Price, pkt., 8c; oz., 20c; 1 lb., 75c; postpaid.



Salsify

## SPINACH

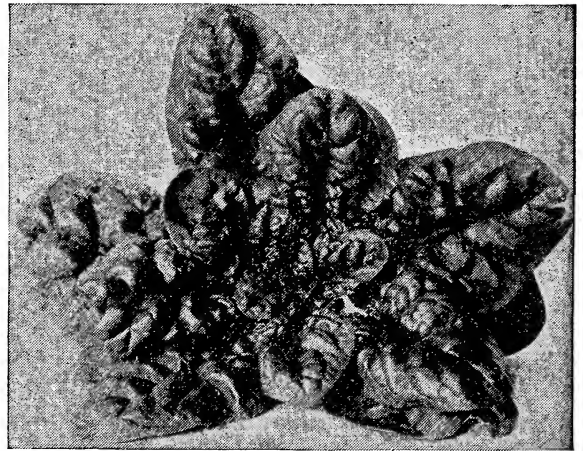
One ounce to 100 feet of drill; 12 lbs. to the acre.

Cultivated very extensively for "greens". A profitable crop for market. Select a rich, well-drained soil, highly manured. For a succession, sow early in April and again in May in drills, one foot apart and one inch deep, properly thinning out when the plants are an inch in the leaf. For early spring use, sow early in autumn and protect the plants with a light covering of leaves or straw.

**BLOOMSDALE (Savoy).** The earliest of all and one of the best; the leaves are numerous, curled and wrinkled. Price, pkt., 8c; oz., 20c; 1 lb., 35c; postpaid.

**LONG-STANDING (Thick Leaved).** A fine market sort. Leaves large and thick, somewhat crumpled. Does not run to seed early. Price, pkt., 8c; oz., 20c; 1 lb., 35c; postpaid.

**NEW ZEALAND.** Entirely different from true spinach in type, in that it thrives during hot weather and in any soil, rich or poor. The tender shoots with golden yellow leaves are of good quality and may be cut throughout the summer. This is something new, but extra good. Plant three or four seeds in hills two feet apart each way. Price, pkt., 8c; oz., 20c; 1 lb., 50c; postpaid.



## PEPPERS

One ounce to 2,000 plants. Requires from 125 to 160 days from sowing to maturity.

The small peppers are the hottest, the large varieties being quite mild in flavor. Sow in hotbed early in April and transplant to the open ground when weather is favorable. May also be sown in the open ground when danger of frost is past and soil is warm.

**LARGE BELL or BULL NOSE.** Large and early square shouldered, flesh thick, and less pungent than most other sorts; much used for mangoes. Price, pkt., 8c; oz., \$1.00; 1 lb., \$2.50; postpaid.

**SWEET MOUNTAIN.** Similar to Bull Nose, though usually larger in size and longer; of very mild flavor. Much used for mangoes. Price, pkt., 8c; oz., \$1.00; 1 lb., \$2.50; postpaid.

**RED CHILI.** Fruit is small, bright red, very hot and pungent. Plants are very productive. Generally used for making pepper sauce. Price, pkt., 8c; oz., \$1.00; 1 lb., \$2.50; postpaid.

**GOLDEN DAWN.** Golden yellow; mild and sweet, size and shape of Large Bell. Price, pkt., 8c; oz., \$1.00; 1 lb., \$2.50; postpaid.

**RUBY KING.** The most popular large red pepper. Plants grow 2 feet high and bear a fine crop of handsome extra large, scarlet fruits. Flesh is thick, sweet and mild. Fine for mangoes. Price, pkt., 8c; oz., \$1.00; 1 lb., \$2.50; postpaid.

**CHINESE GIANT.** This desirable variety, of recent introduction is undoubtedly the largest sweet pepper ever offered. The flesh is quite thick, very mild and remarkably sweet. Price, pkt., 8c; oz., \$1.00; 1 lb., \$2.50; postpaid.

**LONG RED CAYENNE.** If you want a genuine hot pepper, the kind to use is the long red Cayenne. This is the real red-hot kind. Grows 3 to 4 inches. Price, pkt., 8c; oz., \$1.00; 1 lb., \$2.50; postpaid.

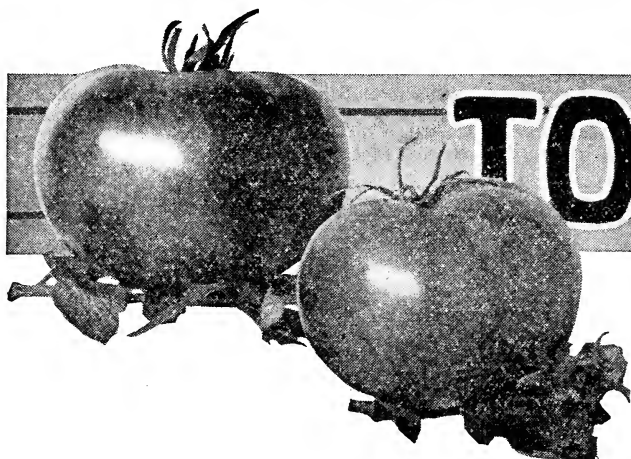
## TOBACCO

1 ounce will sow about 25 square feet and produce plants for 1 acre.

**CONNECTICUT SEED LEAF.** An old, well-known variety. Price, pkt., 8c; oz., 20c; 1 lb., \$1.00; postpaid.

**HAVANNA.** Best for the manufacture of cigars. Price, pkt., 8c; oz., 20c; 1 lb., \$1.00; postpaid.

**For Quantity Prices on all seeds on this page, see pages 24 and 25**



Mature in from 90 to 150 days from planting. 1 ounce to 2,000 plants, 1 lb. (transplanted) per acre.

For early plants, sow seed in boxes or hotbeds in March. When the plants are about two inches high, transplant to four inches each way. Set out doors as soon as danger from frost is over. Transplant carefully four feet apart each way, and cultivate well as long as the vines will permit. To obtain early fruit, pinch off the ends of the branches when the first fruit is set.

**CHALK'S EARLY JEWELL.** The largest, smoothest, and finest flavored, early bright red tomato; so hardy that a very early planting can be made in the open ground. Price, pkt., 8c; oz., 40c; 1 lb., \$1.20; postpaid.

**EARLIANA.** It is a full week ahead of all others. Plants of strong growth and very productive. Fruits large, deep red and of superior quality. Smooth and free from cracks. Price, pkt., 8c; oz., 35c; 1 lb., \$1.10; postpaid.

**QUARTER CENTURY.** Very early. Like the Dwarf Champion only bright red. Price, pkt., 8c; oz., 35c; 1 lb., \$1.10; postpaid.

**JUNE PINK.** An extra early purple-fruited tomato similar to the popular-scarlet-fruited Earliana in growth of vine, shape and size of fruit and time of maturing. Price, pkt., 8c; oz., 35c; 1 lb., \$1.25; postpaid.

**LIVINGSTON'S NEW GLOBE.** Beautiful globe shape, permitting greater number of slices than with flatter sorts. Price, pkt., 8c; oz., 35c; 1 lb., \$1.25; postpaid.

**JOHN BAER.** The best tomato on earth. See back cover and page 2 for extended description. Price, pkt., 15c; oz., 65c; 1 lb., \$2.00.

**DWARF STONE (Livingston's).** Very early and productive; in size, color and quality of fruit equals the Stone; in habit of vine resembles Dwarf Champion, but is stronger and more erect, admitting very close planting. Price, pkt., 8c; oz., 35c; 1 lb., \$1.50; postpaid.

**PONDEROSA.** This is the largest fruited tomato, and is of a fine quality for slicing. The vines are of strong growth; fruits oblong in form, deep through and generally ridged or ribbed; deep purple in color. They are solidly fleshed with small seed cells; of fine flavor. Planted in good soil, fruits frequently attain weight of 1 lb. or more. Price, pkt., 8c; oz., 40c; 1 lb., \$1.50; postpaid.

**DWARF PONDEROSA.** An improvement over the old Giant Ponderosa. As its name implies it is not quite so large but otherwise the fruit is very similar. The vines grow in bush or tree form, similar to the Dwarf Champion. It has proven a great success wherever grown. Price, pkt., 15c; 1 oz., 25c; oz., 75c.

**GOLDEN PONDEROSA.** See back cover and page 2 for full description. Price, pkt., 20c; oz., 65c; 1 lb., \$2.00; postpaid.

**COLOSSAL.** The Colossal Tomato is not only a large tomato, but is simply colossal in size. It is the largest tomato in cultivation. Price, pkt., 8c; oz., 35c; 1 lb., \$1.25; postpaid.

**LIVINGSTON'S CORELESS.** A new, large main-crop variety. In shape it is almost round, having about the same diameter each way. It has no green core, and is of a bright red color, making it valuable either for slicing or for canning. Price, pkt., 8c; oz., 35c; 1 lb. \$1.25; postpaid.

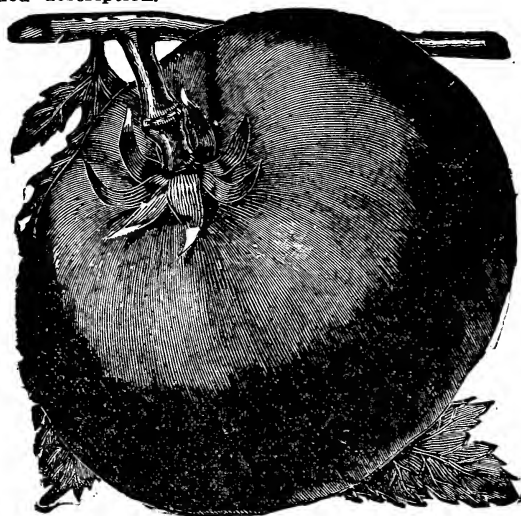
## OTHER STANDARD VARIETIES

These need no extended description.

|  | All Postpaid |        |        |
|--|--------------|--------|--------|
|  | Pkt.         | Oz.    | 1 lb.  |
| <b>ACME.</b> Bright pink, smooth, very productive thick flesh..... | 8c           | \$0.30 | \$0.90 |
| <b>BEAUTY.</b> Large, smooth purplish pink, thick flesh.....       | 8c           | .30    | .90    |
| <b>ENORMOUS.</b> Deep red, smooth, very large.....                 | 8c           | .50    | 1.25   |
| <b>FAVORITE.</b> Large, smooth, productive, good shipper.....      | 8c           | .35    | 1.00   |
| <b>DWARF CHAMPION (Tree Tomato)</b> Extra early.....               | 8c           | .30    | 1.10   |
| <b>TROPHY.</b> Large bright red, solid tomato.....                 | 8c           | .30    | 1.10   |
| <b>STONE.</b> Large bright scarlet, good shipper.....              | 8c           | .30    | 1.25   |

### SMALL TOMATOES

|   | Pkt. | Oz. |
|---|------|-----|
| <b>YELLOW PEAR.</b> Bright yellow, fine flavor.....               | 8c   | 40c |
| <b>RED PEAR.</b> Fruit bright red.....                            | 8c   | 40c |
| <b>YELLOW PLUM.</b> Clear deep yellow.....                        | 8c   | 40c |
| <b>RED CHERRY.</b> Bright red, grows in clusters.....             | 8c   | 40c |
| <b>YELLOW CHERRY.</b> Deep yellow, a favorite for preserving..... | 8c   | 40c |
| <b>PEACH.</b> Skin covered with slight bloom as in a peach.....   | 8c   | 40c |
| <b>HUSK (Ground Cherry).</b> Golden yellow.....                   | 8c   | 40c |



Gentlemen:

I sent to you for Asparagus Roots and John Baer tomato seeds two years ago and used quite a bit of my Asparagus last year and expect it to be fine this year. The plants arrived in splendid condition and all grew except one. My John Baer Tomatoes were simply grand in 1915, from the one packet of seed I raised 10 bushels of tomatoes in my yard back of the house on much less than one-half a lot of ground. This year they were fine but were planted later so did not get as many ripe tomatoes but the green ones were grand and sold at \$1.00 per bushel. I never will raise any other kind.

Yours very truly,

Benkleman Nebr., Mar. 5, 1917

MRS. GEO. THOMPSON.

Ready from 40 to 60  
days from seed

## Turnips

1 oz. to 150 ft. drill  
2 lbs. to acre

The turnip is most easily affected in form and flavor, by soil, climate and mode of culture. Sow in drills about 16 inches apart and half an inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly dug. Sow for main crop from the middle of July to last of August. In the field, turnips are generally sown broadcast, though much larger crops are obtained by drill culture.

**EARLY WHITE FLAT DUTCH STRAP LEAVED.** The most excellent garden turnip and, like Purple Top Strap Leaf, a standard flat variety, maturing at the same time. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 45c; postpaid.

**SNOWBALL or WHITE SIX WEEKS.** Earliest and most perfectly formed round white turnip. Roots are very uniform in size and shape, short top and single taproot. Flesh snowy white, solid, crisp and very sweet. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 60c; postpaid.

**WHITE EGG.** An egg shaped variety, for spring or fall sowing; flesh white, firm, fine grained; mild and sweet; particularly desirable for table. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.50; postpaid.

**COW HORN.** A white turnip of peculiar long shape and quick maturity. It grows to a large size, standing half out of the ground. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.50; postpaid.

**POMERANIAN WHITE GLOBE.** Very productive; in good soil roots grow from 10 to 12 pounds; good for the table or stock. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$1.50; postpaid.

**PURPLE TOP STRAP LEAF FLAT.** The old well-known sort of early spring and fall; purple above ground, flesh fine grained, of mild flavor and a good keeper. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 45c; postpaid.



**EARLY PURPLE TOP GLOBE.** Deservedly popular, heavy produced, of rapid growth and superior quality. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 45c; postpaid.

**EXTRA EARLY PURPLE TOP MILAN.** Two weeks earlier than any other. Flat; white, with purple top. Price, pkt., 8c; oz., 25c;  $\frac{1}{4}$  lb., 75c; postpaid.

**EXTRA EARLY WHITE MILAN.** The earliest of all turnips, and of excellent quality. Top is very small, upright and compact, so the rows can be planted close together. The roots are clear white, very smooth, flat and symmetrical. Price, pkt., 8c; oz., 25c;  $\frac{1}{4}$  lb., 76c; postpaid.

**GOLDEN BALL.** A most delicate and sweet, yellow-fleshed turnip of excellent flavor. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

**LARGE YELLOW. (Amber Globe).** Flesh yellow, fine grained and sweet, very hardy and productive; splendid keeper. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

## Ruta Bagas

Should be sown about a month earlier than turnips.

This is one of the best and most valuable of root crops. They may be very easily grown and more cheaply than potatoes, and usually are worth as much per bushel on the market.

**AMERICAN PURPLE TOP.** Tops very small; bulbs large; skin purple above, yellow underneath; flesh golden yellow; fine texture, sweet and of richest flavor. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.



Snowball

**SKIRVING'S PURPLE TOP YELLOW.** Quite productive; flesh yellow and sweet flavor, shape oblong. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

**SWEET GEOMAN (Long White French)** Bulb enormous. Flesh white, solid and rich. The best keeper of all the Rutabagas, and popular for both table and stock. Price, pkt., 8c; oz., 15c;  $\frac{1}{4}$  lb., 50c; postpaid.

## Rhubarb

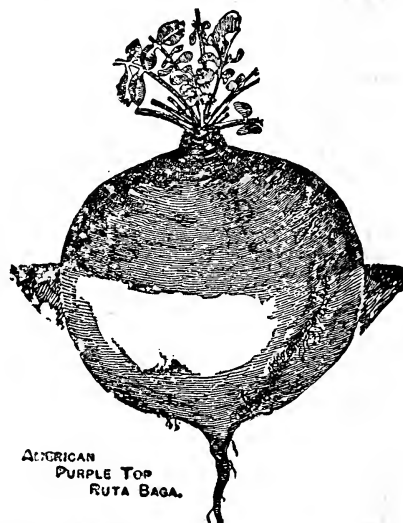
One ounce to 500 plants

Rhubarb is an excellent spring food, possessing medicinal properties. It is the first vegetable of the season from the garden, and no planter should be without it.

**VICTORIA.** Stalks very tall and large; skin thick and red-stained; pulp quite acid; very productive. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 60c; postpaid.

**LINNAEUS.** A large and tender sort, sometimes called wine plant. Price, pkt., 8c; oz., 20c;  $\frac{1}{4}$  lb., 60c; postpaid.

**RHUBARB ROOTS.** Set in spring and they will be ready for use in the following season. 10c each; postpaid. By express, 76c per doz.



AMERICAN  
PURPLE TOP  
RUTA BAGA.

GARDEN COLLECTIONS, SEE PAGES 2 and 23

For Quantity Prices on all seeds on this page see Pages 24 and 25

# Griswold's Home Garden Vegetable Collection No. 4

45 LARGE 8 CENT PACKAGES FOR \$2.80; POSTPAID  
JUST ENOUGH FOR YOUR GARDEN

It often happens that in looking through a catalog you cannot tell just what varieties and quantities of seed you need for your garden to furnish enough vegetables for a medium sized family throughout the season. This collection is made up of just the varieties you need.

**BEANS—**  
2 pkts. Wardwell's Kidney Wax  
2 pkts. Burpee's New Stringless  
2 pkts. Early Golden Cluster Wax

**BEETS—**  
1 pkt. Early Model

**CABBAGE—**  
1 pkt. Early Jersey Wakefield  
1 pkt. Premium Late Flat Dutch

**CARROTS—**  
1 pkt. Ox Heart

**CAULIFLOWER—**  
1 pkt. Early Snowball

**SWEET CORN—**  
1 pkt. Golden Bantum  
1 pkt. Early Minnesota  
1 pkt. Stowell's Evergreen

**CUCUMBERS—**  
1 pkt. Long Green

**ENDIVE—**  
1 pkt. White Curled

**KOHL RABI—**  
1 pkt. Early Purple

**LETTUCE—**  
1 pkt. Simpson's Early Curled  
1 pkt. Early Prize Head

**PARSNIPS—**  
1 pkt. Hollow Crown

**PARSLEY—**  
1 pkt. Champion Moss Curled

**PEPPER—**  
1 pkt. Sweet Mountain

**PUMPKIN—**  
1 pkt. Small Yellow Sugar

**MUSTARD—**  
1 pkt. White

**MUSK MELON—**  
1 pkt. Rocky Ford

**WATERMELON—**  
1 pkt. Tom Watson

**ONION—**  
1 pkt. Large Red Weathersfield

**PEAS—**  
2 pkt. Alaska  
2 pkts. American Wonder  
2 pkts. Nott's Excelsior

**RADISHES—**  
1 pkt. Crimson Globe  
1 pkt. New Sparkler  
1 pkt. Icicle  
1 pkt. Long Scarlet

**SQUASH—**  
1 pkt. Summer Crook Neck  
1 pkt. Chicago Warty Hubbard

**SPINACH—**  
1 pkt. Bloomsdale

**SALSIFY—**  
1 pkt. Mammoth Sandwich Island

**TOMATOES—**  
1 pkt. Early Jewel  
1 pkt. Ponderosa

**TURNIPS—**  
1 pkt. White Egg  
1 pkt. Purple Top Strap Leaf

ABOVE LIST REGULARLY SELLS FOR \$3.60; YOU GET IT FOR \$2.80; POSTPAID

## Griswold's Flower Garden

### COLLECTION NO. 5

#### Fifteen Large 8-cent Packages for 95c; Postpaid

It is difficult to select Flower Seeds which give the best and most pleasing effects unless one is familiar with their habits of growth, etc. The collection we offer below is made up of the best and most popular varieties known.

1 pkt. Alyssum (Little Gem)  
1 pkt. Asters, Giant Comet  
1 pkt. Balsam (Lady Slipper)  
1 pkt. Bachelor's Button

1 pkt. Cosmos  
1 pkt. Four O'clock  
1 pkt. Gaillardia  
1 pkt. Nasturtium

1 pkt. Pansy  
1 pkt. Petunia  
1 pkt. Portulaca  
1 pkt. Salvia

1 pkt. Sweet Peas  
1 pkt. Verbena  
1 pkt. Zinna

NOTE—PLEASE ORDER COLLECTION BY NUMBER.

## Free!

## 40c Coupon 40c

## Free!

WE WANT TO BECOME BETTER ACQUAINTED WITH THE SEED BUYER THROUGHOUT THE COUNTRY. OF COURSE, THERE ARE SOME WHO DO NOT KNOW OF US OR AT LEAST DO NOT GET OUR CATALOG AND THESE WE WANT TO BECOME BETTER ACQUAINTED WITH.

IT IS EXPENSIVE TO ADVERTISE, NO MATTER HOW IT IS DONE, AND YOU MIGHT AS WELL RECEIVE THE BENEFIT OF THIS COST TO US, AND SO IF YOU WILL FILL IN THE LINES BELOW WITH THE NAMES AND ADDRESSES OF FIVE FRIENDS WHOM YOU THINK ARE INTERESTED IN GOOD SEEDS AND WOULD LIKE OUR CATALOG BUT DO NOT GET IT, WE WILL GIVE YOU FIVE OF ANY OF THE 8c PACKAGES OF GARDEN OR FLOWER SEED LISTED IN OUR CATALOG, YOUR SELECTION, ABSOLUTELY FREE POSTPAID, IF SENT IN WITH AN ORDER AMOUNTING TO \$1.00.

Name ..... Town ..... State .....

After filling in the above lines, write your name and address here:

Cut out and return to us

NOTICE—Before sending your order, look over the index as you will, no doubt, find something else you want. When sending your seed order include a few plants, poultry and bee supplies, insecticides, etc. Thus you will save time and express charges.

# Price List

GARDEN SEED NOT POSTPAID

 UNITED STATES FOOD ADMINISTRATION  
 LICESSE NUMBER G-18171

On this page you will find prices of all the different kinds of Garden Seeds displayed in our catalog. These prices are not postpaid. You can order them sent by express or freight, and if you wish them sent by parcel post your Postmaster can tell you the amount of postage required if you will give him the number of pounds in your order, then you can remit the postage along with your remittance for the order and we will send it by parcel post.

At the bottom of page 25 you will find a condensed parcel post table. By it you can tell about what the postage will be on any given weight.

| ASPARAGUS                    |                       |        |        |        |
|------------------------------|-----------------------|--------|--------|--------|
|                              | oz.                   | 2oz.   | ¼lb.   | lb.    |
| All varieties Asparagus..... | \$0.10                | \$0.15 | \$0.25 | \$0.85 |
| Asparagus Roots .....        | 10c doz.; 60c per 100 |        |        |        |

| BEANS              |         |         |         |         |         |
|--------------------|---------|---------|---------|---------|---------|
| Dwarf Wax          |         |         |         |         |         |
|                    | 1 lb.   | 5 lb.   | 10 lb.  | 25 lb.  | 50 lb.  |
|                    | per lb. | per lb. | per lb. | per lb. | per lb. |
| All Dwarf Wax..... | \$0.30  | \$0.28  | \$0.28  | \$0.27  | \$0.26  |

| Dwarf Green Pod             |         |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|---------|
|                             | 1 lb.   | 5 lb.   | 10 lb.  | 25 lb.  | 50 lb.  |
|                             | per lb. | per lb. | per lb. | per lb. | per lb. |
| Tepary .....                | .30     | .29     | .28     | .27     | .26     |
| Burpee's Stringless.....    | .30     | .29     | .28     | .27     | .26     |
| Giant Stringless.....       | .30     | .29     | .28     | .27     | .26     |
| Imperial Red Valentine..... | .30     | .28     | .27     | .26     | .25     |
| Long Yellow Six Weeks.....  | .30     | .28     | .27     | .26     | .25     |
| Refugee (1000 to 1).....    | .30     | .28     | .27     | .26     | .25     |
| White Marrow.....           | .30     | .28     | .27     | .26     | .25     |
| Little Wonder Navy.....     | .27     | .26     | .25     | .24     | .23     |
| Henderson Bush Lima.....    | .31     | .30     | .29     | .28     | .27     |
| Burpee's Bush Lima.....     | .31     | .30     | .29     | .28     | .27     |

| Pole or Running                      |         |         |         |         |         |
|--------------------------------------|---------|---------|---------|---------|---------|
|                                      | 1 lb.   | 5 lb.   | 10 lb.  | 25 lb.  | 50 lb.  |
|                                      | per lb. | per lb. | per lb. | per lb. | per lb. |
| Cut Short (Corn Hill).....           | .30     | .29     | .28     | .27     | .26     |
| Dutch Case Knife.....                | .30     | .29     | .28     | .27     | .26     |
| Early Golden Cluster Wax.....        | .40     | .38     | .37     | .36     | .35     |
| Lazy Wife.....                       | .35     | .33     | .32     | .31     | .30     |
| Large Lima or Butter.....            | .30     | .29     | .28     | .27     | .26     |
| Old Homestead (Kentucky Wonder)..... | .35     | .33     | .32     | .31     | .30     |
| Red Kidney.....                      | .30     | .29     | .28     | .27     | .26     |

| BEETS                      |        |        |        |  |
|----------------------------|--------|--------|--------|--|
| Table Sorts                |        |        |        |  |
|                            | oz.    | ¼lb.   | lb.    |  |
| Early Wonder.....          | \$0.20 | \$0.60 | \$2.00 |  |
| All other Table Beets..... | .15    | .45    | 1.50   |  |

| Mangel Wurzel and Sugar Beets |         |         |         |         |         |
|-------------------------------|---------|---------|---------|---------|---------|
|                               | oz.     | ¼lb.    | lb.     | 5 lb.   | 10 lb.  |
|                               | per lb. | per lb. | per lb. | per lb. | per lb. |
| Corn Saver.....               | \$0.10  | \$0.30  | \$1.00  | \$0.95  | \$0.90  |
| Klein's Wanzleben.....        | .10     | .40     | 1.15    | 1.10    | 1.00    |
| Danish Sludstrup.....         | .10     | .30     | .95     | .90     | .85     |
| Dark Red Giant Eckendorf..... | .10     | .30     | .95     | .90     | .85     |
| All other Mangels.....        | .10     | .30     | .95     | .90     | .85     |

| Brussels Sprouts         |        |        |        |        |
|--------------------------|--------|--------|--------|--------|
|                          | oz.    | 2oz.   | ¼lb.   | lb.    |
| Improved Half Dwarf..... | \$0.20 | \$0.35 | \$0.50 | \$1.75 |

| CABBAGE                                |      |      |      |       |
|--|------|------|------|-------|
| Extra Early Sorts                      |      |      |      |       |
|  | 1.25 | 2.25 | 4.25 | 15.00 |
| Copenhagen Market.....                 | .80  | 1.50 | 2.50 | 8.00  |
| Extra Early Express (Lightning).....   | .80  | 1.50 | 2.50 | 8.00  |
| Earliest Etamps (Earliest of All)..... | .80  | 1.50 | 2.50 | 8.00  |
| Early York.....                        | .80  | 1.50 | 2.50 | 8.00  |
| Early Jersey Wakefield.....            | .80  | 1.50 | 2.50 | 8.00  |
| Early Winningstadt.....                | .80  | 1.50 | 2.50 | 8.00  |
| Early Spiring.....                     | .80  | 1.50 | 2.50 | 8.00  |

| Summer Sorts                 |     |      |      |      |
|------------------------------|-----|------|------|------|
| All Head Early.....          | .60 | 1.35 | 2.25 | 7.00 |
| All Seasons (Vandergaw)..... | .60 | 1.35 | 2.25 | 7.00 |
| Early Dwarf Flat Dutch.....  | .60 | 1.35 | 2.25 | 7.00 |
| Early Drumhead.....          | .60 | 1.35 | 2.25 | 7.00 |
| Early Summer.....            | .60 | 1.35 | 2.25 | 7.00 |

| Fall and Winter Sorts             |      |      |      |       |
|-----------------------------------|------|------|------|-------|
|                                   | .60  | 1.35 | 2.25 | 7.00  |
| Autumn King.....                  | 1.00 | 1.90 | 3.50 | 13.00 |
| Hollander (Danish Ball Head)..... | .60  | 1.35 | 2.25 | 7.00  |
| Large Late Drumhead.....          | .60  | 1.35 | 2.25 | 7.00  |
| Lupton.....                       | .60  | 1.35 | 2.25 | 7.00  |
| Premiums Late Flat Dutch.....     | .60  | 1.35 | 2.25 | 7.00  |
| Red Dutch.....                    | .60  | 1.35 | 2.25 | 7.00  |
| Surehead.....                     | .60  | 1.35 | 2.25 | 7.00  |

| CARROTS                    |     |     |     |      |
|----------------------------|-----|-----|-----|------|
| Table Sorts                |     |     |     |      |
| Early French Forcing.....  | .20 | .35 | .50 | 1.50 |
| Scarlet Horn.....          | .20 | .35 | .50 | 1.50 |
| All other Table sorts..... | .15 | .25 | .40 | 1.25 |

| Stock Carrots      |        |        |        |        |
|--------------------|--------|--------|--------|--------|
|                    | oz.    | ¼lb.   | lb.    | 5lb.   |
| All varieties..... | \$0.10 | \$0.30 | \$1.00 | \$4.75 |

| CAULIFLOWER                     |        |        |  |
|---------------------------------|--------|--------|--|
|                                 | 1½oz.  | oz.    |  |
| Danish Giant (dry weather)..... | \$1.50 | \$2.50 |  |
| Early Snowball.....             | 1.50   | 2.50   |  |
| Extra Early Erfurt.....         | 1.50   | 2.50   |  |

| CELERY        |      |        |        |        |
|---------------|------|--------|--------|--------|
|               | oz.  | 2oz.   | ¼lb.   | lb.    |
| Celeriac..... | 0.35 | \$0.65 | \$1.00 | \$3.50 |

|                            |     |      |      |      |
|----------------------------|-----|------|------|------|
| Giant Golden Heart.....    | .35 | .75  | 1.00 | 3.50 |
| Giant Pascal.....          | .35 | .75  | 1.00 | 3.50 |
| Golden Self-Blanching..... | .60 | 1.00 | 1.85 | 6.00 |
| White Plume.....           | .35 | .75  | 1.00 | 3.50 |

| CORN—SWEET               |         |         |         |         |         |
|--------------------------|---------|---------|---------|---------|---------|
|                          | 1 lb.   | 5 lb.   | 10 lb.  | 25 lb.  | 50 lb.  |
|                          | per lb. | per lb. | per lb. | per lb. | per lb. |
| Adam's Extra Early.....  | \$0.27  | \$0.26  | \$0.25  | \$0.24  | \$0.23  |
| Country Gentleman.....   | .30     | .30     | .29     | .28     | .27     |
| Crosby's Early.....      | .28     | .28     | .27     | .26     | .25     |
| Early Champion.....      | .28     | .28     | .27     | .26     | .25     |
| Early Cory.....          | .28     | .28     | .27     | .26     | .25     |
| Early Evergreen.....     | .28     | .28     | .27     | .26     | .25     |
| Early Minnesota.....     | .28     | .28     | .27     | .26     | .25     |
| Extra Early Premo.....   | .28     | .28     | .27     | .26     | .25     |
| Golden Bantan.....       | .30     | .30     | .29     | .28     | .27     |
| Howling Mob.....         | .28     | .28     | .27     | .26     | .25     |
| Mammoth Sugar.....       | .28     | .28     | .27     | .26     | .25     |
| Mammoth White Cory.....  | .28     | .28     | .27     | .26     | .25     |
| Peep O'Day.....          | .28     | .28     | .27     | .26     | .25     |
| Stowell's Evergreen..... | .28     | .28     | .27     | .26     | .25     |
| Aristocrat.....          | .35     | .34     | .33     | .32     | .30     |
| Pakago.....              | .35     | .34     | .33     | .32     | .30     |

| CHIVES      |  |     |
|-------------|--|-----|
| Packet..... |  | 10c |

| CHESS OR PEPPER GRASS |        |        |        |     |
|-----------------------|--------|--------|--------|-----|
|                       | oz.    | 2oz.   | ¼lb.   | lb. |
| Extra Curled.....     | \$0.20 | \$0.35 | \$0.50 |     |
| Water.....            | .40    | .75    | 1.25   |     |

| CUCUMBERS                             |     |     |     |      |
|---------------------------------------|-----|-----|-----|------|
| Boston Picklink (Green Prolific)..... | .10 | .15 | .30 | 1.00 |
| Early Cluster.....                    | .10 | .15 | .30 | 1.00 |
| Davis New Perfect.....                | .10 | .15 | .30 | 1.00 |
| Early Frame (Short Green).....        | .10 | .15 | .30 | 1.00 |
| Everbearing.....                      | .10 | .15 | .30 | 1.00 |
| Improved Early White Spine.....       | .10 | .15 | .30 | 1.00 |
| Improved Jersey Pickling.....         | .10 | .15 | .30 | 1.00 |
| Improved Long Green.....              | .15 | .25 | .45 | 1.50 |
| Japanese Climbing.....                | .15 | .25 | .45 | 1.50 |

| EGG PLANT                     |      |      |      |      |
|-------------------------------|------|------|------|------|
|                               | 1.00 | 1.57 | 2.50 | 7.00 |
| Improved New York Purple..... | 1.00 | 1.75 | 2.50 | 7.00 |
| Blag Beauty.....              | 1.00 | 1.75 | 2.50 | 7.00 |

| ENDIVE             |     |     |     |      |
|--------------------|-----|-----|-----|------|
| All varieties..... | .20 | .35 | .50 | 1.50 |

| KALE               |     |     |     |
|--------------------|-----|-----|-----|
| All varieties..... | .25 | .45 | .85 |

| KOHLRABI                    |     |     |      |      |
|-----------------------------|-----|-----|------|------|
| Early White Vienna.....     | .40 | .70 | 1.25 | 3.50 |
| White Vienna (Forcing)..... | .40 | .70 | 1.25 | 3.50 |
| Early Purple.....           | .40 | .70 | 1.25 | 3.50 |

| LEEK               |     |     |      |      |
|--------------------|-----|-----|------|------|
| American Flag..... | .40 | .70 | 1.25 | 3.50 |

| LETTUCE            |     |     |     |      |
|--------------------|-----|-----|-----|------|
| All varieties..... | .15 | .25 | .45 | 1.35 |

| MINT       |  |             |
|------------|--|-------------|
| Roots..... |  | \$1.50 doz. |

| MUSKMELON                    |        |        |        |        |
|------------------------------|--------|--------|--------|--------|
| Green Fleshed                |        |        |        |        |
|                              | oz.    | 2oz.   | ¼lb.   | lb.    |
| Rocky Ford.....              | \$0.15 | \$0.25 | \$0.40 | \$1.00 |
| Green Nutmeg.....            | .15    | .25    | .40    | 1.00   |
| Extra Early Hackensack.....  | .15    | .25    | .40    | 1.00   |
| Hackensack (Turk's Cap)..... | .15    | .25    | .40    | 1.00   |
| Chicago Market.....          | .15    | .25    | .40    | 1.00   |

| Yellow Fleshed              |     |     |     |      |
|-----------------------------|-----|-----|-----|------|
|                             | .15 | .25 | .40 | 1.25 |
| Osage (Miller's Cream)..... | .15 | .25 | .40 | 1.25 |
| Emerald Gem.....            | .15 | .25 | .40 | 1.25 |
| Long Yellow Cantaloupe..... | .15 | .25 | .40 | 1.25 |
| Paul Rose (Petoskey).....   | .15 | .25 | .40 | 1.25 |
| Vine Peach.....             | .20 | .35 | .50 | 1.50 |
| Burrell's Gem.....          | .20 | .35 | .50 | 1.50 |
| Banana Cantaloupe.....      | .15 | .25 | .45 | 1.25 |

| WATERMELON                           |     |     |     |     |
|--------------------------------------|-----|-----|-----|-----|
|                                      | .10 | .15 | .25 | .70 |
| Alabama Sweet.....                   | .10 | .15 | .25 | .70 |
| Black Boulder.....                   | .10 | .15 | .25 | .70 |
| Halbert's Honey.....                 | .10 | .15 | .25 | .70 |
| Colorado Preserving Citron.....      | .10 | .15 | .25 | .70 |
| Duke Jones (Jumbo).....              | .10 | .15 | .25 | .70 |
| Florida Favorite.....                | .10 | .15 | .25 | .70 |
| Kleckley's Sweet (Monte Cristo)..... | .10 | .15 | .25 | .70 |
| McIver's Wonderful Sugar.....        | .10 | .15 | .25 | .70 |
| All other varieties.....             | .10 | .15 | .25 | .70 |

## PRICE LIST—CONTINUED

## MUSHROOM SPAWN

Per brick (1½ lbs.).....  
2 for 45c; 6 bricks, \$1.40; 12 for \$2.75; by express.

## MUSTARD

|                              | oz.    | 2oz    | ¼lb.   | lb.    |
|------------------------------|--------|--------|--------|--------|
| Chinese .....                | \$0.10 | \$0.15 | \$0.25 | \$0.75 |
| Mammoth Southern Curled..... | .10    | .15    | .25    | .75    |
| White .....                  | .10    | .15    | .25    | .75    |

## OKRA or GUMBO

|                    |     |     |     |      |
|--------------------|-----|-----|-----|------|
| All Varieties..... | .10 | .25 | .35 | 1.00 |
|--------------------|-----|-----|-----|------|

## ONION

|                                   |     |      |      |      |
|-----------------------------------|-----|------|------|------|
| Australian Brown.....             | .40 | .75  | 1.25 | 4.00 |
| Extra Early Red Flat.....         | .35 | .65  | 1.00 | 3.50 |
| Globe Wethersfield Red.....       | .35 | .65  | 1.00 | 3.50 |
| Large Red Weatherfield.....       | .35 | .55  | .90  | 3.00 |
| Mammoth Silver King.....          | .60 | 1.00 | 1.60 | 6.00 |
| Prize-Taker.....                  | .35 | .65  | 1.00 | 3.50 |
| Red Bermuda.....                  | .35 | .65  | 1.00 | 3.50 |
| Southport Red Globe.....          | .35 | .65  | 1.00 | 3.50 |
| Southport White Globe.....        | .40 | .75  | 1.25 | 4.00 |
| Southport Yellow Globe.....       | .30 | .65  | .90  | 3.00 |
| Yellow Globe Danvers.....         | .30 | .65  | .90  | 3.00 |
| White Portugal (Silver Skin)..... | .40 | .75  | 1.25 | 4.00 |
| White Queen (Bartlettta).....     | .65 | 1.25 | 1.60 | 6.00 |
| White Bermuda.....                | .35 | .65  | 1.00 | 3.50 |

Deduct 10c per lb. in 5-lb. lots.

## ONION SETS

|                                  | qt.    | 4qt.   | pk.    | bu.    |
|----------------------------------|--------|--------|--------|--------|
| Red Bottom (bu. 32 lbs.).....    | \$0.20 | \$0.75 | \$1.40 | \$5.00 |
| Yellow Bottom (bu. 32 lbs.)..... | .20    | .75    | 1.40   | 5.00   |
| White Bottom (bu. 32 lbs.).....  | .25    | 1.00   | 1.60   | 6.00   |
| Winter Top (bu. 28 lbs.).....    | .20    | 1.00   | 1.50   | 5.00   |

Price of all Onion Sets by bushel are subject to market fluctuations. Prices by quart good throughout season, or as long as our supply lasts.

## PARSLEY

|                     | oz.    | 2oz    | ¼lb.   | lb.    |
|---------------------|--------|--------|--------|--------|
| All varieties ..... | \$0.15 | \$0.25 | \$0.35 | \$1.25 |

## PARSNIPS

|                     |     |     |     |      |
|---------------------|-----|-----|-----|------|
| All varieties ..... | .15 | .25 | .40 | 1.25 |
|---------------------|-----|-----|-----|------|

## PEANUTS

|             |                         |
|-------------|-------------------------|
| Jumbo ..... | 30c lb.; 2 lbs. for 55c |
|-------------|-------------------------|

## PEAS

|                          | 1 lb.   | 5 lb.   | 10 lb.  | 25 lb.       | 50 lb.  |
|--------------------------|---------|---------|---------|--------------|---------|
|                          | per lb. | per lb. | per lb. | per lb.      | per lb. |
| Little Marvel .....      | \$0.30  | \$0.28  | \$0.27  | \$0.26       | \$0.25  |
| Alaska .....             | .26     | .25     | .24     | .23          | .22     |
| First and Best.....      | .26     | .25     | .24     | .23          | .22     |
| McLean's Little Gem..... | .26     | .25     | .24     | .23          | .22     |
| Premium Gem.....         | .26     | .25     | .24     | .23          | .22     |
| Canada Field.....        |         |         |         | Market Price |         |
| Champion of England..... | .30     | .28     | .27     | .26          | .25     |
| White Marrowfat.....     | .20     | .20     | .19     | .19          | .18     |
| All other varieties..... | .25     | .25     | .24     | .24          | .23     |

Write for prices in larger lots.

## PEPPERS

|                          | oz.    | 2oz    | ¼lb.   | lb.    |
|--------------------------|--------|--------|--------|--------|
| Chinese Giant.....       | \$1.00 | \$1.50 | \$2.50 | \$8.00 |
| All other varieties..... | 1.00   | 1.50   | 2.50   | 8.00   |

## PUMPKIN

|  |        |        |        |        |
|--|--------|--------|--------|--------|
| Connecticut Field.....                     | \$0.15 | \$0.25 | \$0.40 | \$1.00 |
| Cushaw (Crookneck).....                    | .20    | .35    | .45    | 1.25   |
| Japanese Pie.....                          | .30    | .35    | .45    | 1.25   |
| King of the Mammoths (Jumbo Potiron) ..... | .20    | .35    | .45    | 1.25   |
| Large Sweet Chese.....                     | .15    | .25    | .40    | 1.00   |
| Sweet Sugar.....                           | .15    | .25    | .40    | 1.00   |
| Sweet Potato .....                         | .20    | .35    | .40    | 1.25   |

## RADISH

|                                   |     |     |     |      |
|-----------------------------------|-----|-----|-----|------|
| Saxa .....                        | .20 | .35 | .60 | 2.00 |
| Non Plus Ultra.....               | .20 | .35 | .60 | 2.00 |
| Early Long Scarlet.....           | .15 | .25 | .40 | 1.25 |
| Chartier .....                    | .15 | .25 | .40 | 1.25 |
| Giant Crimson Globe.....          | .20 | .35 | .60 | 2.00 |
| New Sparkler.....                 | .20 | .35 | .60 | 2.00 |
| Chinese Rose (Scarlet China)..... | .15 | .30 | .50 | 1.50 |
| California Mammoth White.....     | .15 | .30 | .50 | 1.50 |
| Round Black Spanish.....          | .15 | .30 | .50 | 1.50 |
| Long Black Spanish.....           | .15 | .30 | .50 | 1.50 |
| Sakurajima .....                  | .25 | .45 | .75 | 2.50 |
| All other varieties.....          | .15 | .30 | .55 | 1.75 |

## RHUBARB or PIE PLANT

|                    |                        |     |     |      |
|--------------------|------------------------|-----|-----|------|
| Victoria .....     | .20                    | .35 | .50 | 1.50 |
| Linnaeus .....     | .20                    | .35 | .50 | 1.50 |
| Rhubarb Roots..... | 5c each; 50c per dozen |     |     |      |
| Swiss Chard .....  | .20                    | .35 | .60 | 2.00 |

If interested in larger quantities than listed here or an extended list of seeds we would be glad to quote special prices.

## SALSIFY or VEGETABLE OYSTER

|                              | oz. | 2oz | ¼lb. | lb.  |
|------------------------------|-----|-----|------|------|
| Mammoth Sandwich Island..... | .35 | .60 | 1.00 | 3.50 |

## SPINACH

|  |     |     |     |      |
|--|-----|-----|-----|------|
| Bloodsdales (Savoy Leaved).....            | .10 | .15 | .25 | .80  |
| Improved Thick Leaved (Long Standing)..... | .10 | .15 | .25 | .80  |
| New Zealand.....                           | .20 | .35 | .50 | 1.50 |
| Prickly (Fall).....                        | .10 | .15 | .25 | .80  |

## SQUASH

|                               |     |     |     |      |
|-------------------------------|-----|-----|-----|------|
| Boston Marrow (Autumnal)..... | .20 | .35 | .50 | 1.75 |
| Fordhook .....                | .20 | .35 | .50 | 1.75 |
| Golden Hubbard.....           | .20 | .35 | .50 | 1.75 |
| Hubbard, Chicago Warded.....  | .20 | .35 | .50 | 1.75 |
| Mammoth Chili .....           | .20 | .35 | .50 | 1.75 |
| Marblehead .....              | .20 | .35 | .50 | 1.75 |
| Orange Marrow.....            | .20 | .35 | .50 | 1.75 |
| Perfect Gem .....             | .20 | .35 | .50 | 1.75 |
| Pike's Peak (Sibley).....     | .20 | .35 | .50 | 1.75 |
| Winter Crookneck.....         | .20 | .35 | .50 | 1.75 |
| All other varieties.....      | .20 | .35 | .50 | 1.75 |

## SWEET POTATOES

Potatoes ready April 1st. Plants ready about May 1st.

(Write for prices on potatoes)

Yellow Jersey.....Plants, 65c per 100; \$6.00 per 1000

Yellow Nansemond.....Plants, 65c per 100; \$6.00 per 1000

500 for \$1.50

## TOBACCO

Oz. 35c; 2 oz., 55c; ¼ lb., \$1.00.

## TOMATO

|                                | oz.    | 2oz    | ¼lb.   | lb.    |
|--------------------------------|--------|--------|--------|--------|
| Acme .....                     | \$0.30 | \$0.50 | \$0.90 | \$3.50 |
| Beautys .....                  | .30    | .50    | .90    | 3.50   |
| Chalk's Early Jewel.....       | .35    | .60    | 1.10   | 4.00   |
| Dwarf Stone, Livingston's..... | .35    | .60    | 1.00   | 4.25   |
| Dwarf Champion (Tree).....     | .35    | .60    | 1.10   | 4.00   |
| Earliana .....                 | .35    | .60    | 1.10   | 4.00   |
| Enormous .....                 | .35    | .60    | 1.10   | 4.00   |
| Favorite .....                 | .35    | .60    | 1.10   | 4.00   |
| Golden Ponderosa.....          | .65    | 1.25   | 2.00   | 6.50   |
| June Pink .....                | .35    | .60    | 1.10   | 4.00   |
| Livingston's New Globe.....    | .35    | .65    | 1.10   | 4.00   |
| Livingston's Coreless .....    | .35    | .60    | 1.10   | 4.15   |
| Ponderosa .....                | .40    | .75    | 1.40   | 5.50   |
| Quarter Century .....          | .35    | .60    | 1.10   | 4.25   |
| Stone .....                    | .35    | .60    | 1.10   | 4.25   |
| Trophy .....                   | .35    | .60    | 1.10   | 4.25   |
| John Baer .....                | .65    | 1.25   | 2.00   | 6.75   |

## ALL SMALL TOMATOES

Oz, 35c; 2 oz., 65c; ¼ lb., \$1.25

## TURNIP

|                                       | oz.    | 2oz    | ¼lb.   | lb.    |
|---------------------------------------|--------|--------|--------|--------|
| Extra Early Purple Top Milan.....     | \$0.25 | \$0.45 | \$0.75 | \$2.50 |
| Extra Early White Milan.....          | .25    | .45    | .75    | 2.50   |
| Extra Purple Top Globe.....           | .20    | .35    | .60    | 1.75   |
| Early White Flat Dutch.....           | .20    | .35    | .60    | 1.75   |
| Early White Snowball (Six Weeks)..... | .20    | .35    | .60    | 1.75   |
| Golden Ball (Orange Jelly).....       | .15    | .25    | .45    | 1.25   |
| Large Yellow (Amber Globe).....       | .15    | .25    | .45    | 1.25   |
| Purple Top Stray Leaf Flat.....       | .15    | .25    | .45    | 1.25   |
| Long White Cow Horn.....              | .20    | .35    | .60    | 1.75   |
| Pomeranian White Globe.....           | .20    | .35    | .60    | 1.75   |
| White Egg.....                        | .20    | .35    | .60    | 1.50   |

## RUTA BAGA

|                                   |     |     |     |      |
|-----------------------------------|-----|-----|-----|------|
| American Purple Top.....          | .15 | .25 | .45 | 1.50 |
| Skirving's Purple Top Yellow..... | .15 | .25 | .45 | 1.50 |

## DOMESTIC PARCEL POST RATES

|   |     |                         |                                   |      |
|---|-----|-------------------------|-----------------------------------|------|
| Sweet German (Long White French) .....  | .15 | .25                     | .45                               | 1.50 |
| On Seeds, Plants, Bulbs, Roots, Books, Tools, etc., within the U. S. and Possessions: |     | First pound or fraction | Each additional pound or fraction |      |

|  |     |     |
|--|-----|-----|
| First Zone—Lincoln or 50 miles thereof .....       | 5c  | 1c  |
| Second Zone—within 50 to 150 miles of Lincoln..... | 5c  | 1c  |
| Third Zone—within 150 to 300 miles .....           | 6c  | 2c  |
| Fourth Zone—within 300 to 600 miles .....          | 7c  | 4c  |
| Fifth Zone—within 600 to 1000 miles .....          | 8c  | 6c  |
| Sixth Zone—within 1000 to 1400 miles .....         | 9c  | 8c  |
| Seventh Zone—within 1400 to 1800 miles .....       | 11c | 10c |
| Eighth Zone—all over 1800 miles.....               | 12c | 12c |

In Making Your Order, Please Give the Price, to Avoid Delay and Errors



# SEED POTATOES

FOR SPRAYERS AND INSECTICIDES

See page 65

One peck will plant about 100 hills,  
8 or 12 bushels required to the acre.

With no other seed is the importance of change more essential than with potatoes, and by using our Northern grown seed you are assured of early maturity, increased yield and vigorous growth. The following varieties are, we think, the best and most satisfactory sorts for growing in Nebraska and other states of the same latitude. Most of our seed potatoes are grown in Minnesota or the Dakotas and are of superior quality. Order early as possible and we will ship as soon as weather permits.

**EARLY SIX WEEKS.** Another potato of the Ohio type in great demand. Not the heaviest yielder, but good sized, smooth, round to oblong tubers in eating condition before the well-known Early Ohio.

**RED TRIUMPH.** Earlier than any other, desirable for the first "new potatoes." Tubers nearly round, medium in size, reddish pink in color.

**RED RIVER EARLY OHIO.** This is the most popular early potato in this country. We have more calls for it than any other early variety. Every potato grower knows what it is and knows just what it will do in

his locality. It is the standard extra early the world over and other varieties are measured by it.

**CARMAN NO. 3.** This potato is of large and uniform size, yielding immense crops. It is of perfect form. It has but a few eyes, and they are shallow; the skin and flesh are extremely white and its cooking qualities are very fine. It is a remarkably handsome potato, enormously prolific.

**RURAL NEW YORKER.** It is very large, unusually smooth, with few and shallow eyes; form slightly oblong, and rather flattened. Skin and flesh white, quality excellent, season intermediate. Tubers of great uniformity in size, almost every one marketable. It holds a leading place as a standard field cropper.

**IRISH COBBLER.** It is an excellent extra variety, maturing good sized tubers seven weeks from time of planting; producing very few, if any, small potatoes; all tubers being of marketable size.

## PRICES OF POTATOES LISTED ABOVE

Six weeks, Triumph and Irish Cobbler by mail 1 lb., 20c; 5 lbs., 85c; postpaid. By express or freight your expense, 100 lbs., \$4.00. Sack containing 165 lbs., \$6.00. Early Ohio, Carman and Rural New Yorker, by mail, 1 lb., 15c; 5 lbs., 65c; postpaid. Express or freight 100 lbs., \$3.50. Sack containing 165 lbs., \$5.50.

Prices on all potatoes subject to market changes. Write for special prices on quantities.

## HYBRIDIZED POTATO SEED

FROM THE SEED-BALLS—HEADQUARTERS STOCK.

Millions never saw a Potato Seed Ball. Thousands have tried in vain to get the seed. Now is your opportunity. This unrivaled seed will produce an endless variety of new kinds. Your fortune may be in one of them. They are as easy to grow as tomatoes.

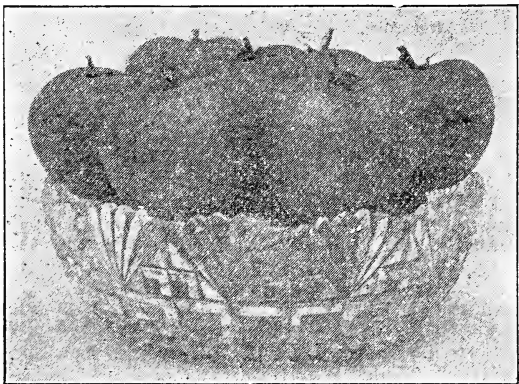


PHOTO OF POTATO SEED BALLS—ONE-HALF NATURAL SIZE.


It is from these that **ALL** valuable new varieties of Potatoes are produced.

Growing new and distinct Seedling Potatoes from the Seed-Ball Seed is intensely interesting. They will be the greatest curiosity of your garden. This seed will positively produce innumerable new kinds, colors, shapes, sizes, and qualities. The product will astonish you. Some may be of immense value and bring you a golden harvest. Every farmer, gardener, and bright boy should plant a few packets. You may be one of the lucky ones. Full directions on every packet.

READ THESE EXTRACTS FROM CUSTOMERS LETTERS.

"I grew 101 Potatoes from one plant of your Potato Seed. Every plant was a different variety." Mrs. Ellen Keener.  
"I raised 50 Hills from one Packet; many kinds and colors; some early, some late. 94 Potatoes in one hill." J. H. Skinner.  
"Your remarkable Potato Seed produced white, pink, red, purple, blue, cream, russet, and black potatoes." W. M. Johnson.  
"Your Potato Seed is a wonder. I grew 115 different varieties from one Packet—the finest I ever saw." C. E. Flint.  
"I grew 45 pounds of Seedling Potatoes from one Packet. I expect wonders from them next year." Thomas Lucas.

Packet 15 cts. 2 for 25c. 5 for 50c. 10 for \$1.



TO KILL POTATO BUGS USE  
"BUG DEATH"  
WITH AN ACRE  
AN HOUR SIFTER.

Tubular Hand Potato Planter. Price, \$1.50 by express.

Acme Hand Potato Planter. Price \$1.00 by express.

Tubular

Acme

## SWEET POTATOES

One bushel of potatoes should produce 2,000 sprouts, 6,000 to 7,000 plants to the acre.

**YELLOW JERSEY, YELLOW NANSEMOND.** These are the most desirable varieties. Ready about April 1. Write for prices.

**SWEET POTATO PLANTS.** Ready about May 1. For prices, see page 2.

**REMEMBER!** Small Orders Receive the Same Attention as Large Ones.

# CORN SAVER BEET



**Fattens Hogs for a Fraction the Price of Corn**

**A BIG MONEY MAKER. KEEPS HOGS HEALTHY**

**A MONEY MAKER.** In these times of high priced hogs and higher priced corn, it behooves the hog raiser to cast about for a cheaper fattening food for his herd. We offer you this Sugar Beet. It is not an experiment. We have been selling it for the past five years in every state in the Union. If you have not tried it, surely some one in your neighborhood has. We get hundreds of testimonials every year as to its worth as a hog fattener. Before we ever offered it as such we gave it a thorough trial ourselves on our own farm with the result that we named it CORN SAVER.

**HOW TO FEED.** We began feeding our hogs 1-3 corn, 1-3 alfalfa and 1-3 of the new CORN SAVER BEET. The amount of alfalfa hay and corn can be reduced from time to time until you will not have to average more than one small ear of corn to each hog, with very little alfalfa hay and the balance CORN SAVER BEET. Give them all they can eat and the hogs will get rolling fat and healthy. Our experience proves we have struck something that will make the profit on hog raising several

times greater than heretofore and believe will entirely do away with hog cholera.

**AMOUNT TO SOW.** It is an easy matter to raise these CORN SAVER BEETS. Simply sow on deeply plowed soil 10 lbs. to the acre, from April to June, in rows 18 inches to 2 feet apart. Thin plants to 8 inches in row—transplant young plants to fill vacancies. Cultivate thoroughly with a five-tooth cultivator or an ordinary one-row corn cultivator and you will have one of the largest money making crops you ever raised. Beet hulls are thick. If it is dry soak seed 24 hours in water before planting.

Price, pkt., 10c; oz., 15c;  $\frac{1}{2}$  lb. 60c; lb., \$1.10; postpaid. By freight or express, 5 lbs., \$4.75; 10 lbs. (enough for 1 acre), \$9.00.

## Mangels for Stock Feeding

**140 to 150 days required from sowing to maturity. One ounce will sow 100 ft. drill, 6 pounds per acre.**

When the fact is considered that 50 tons of Mangel Wurzel may be grown on a single acre, at a small outlay, the wonder is that every farmer does not profit by it.

**DANISH SLUDSTRUP.** Long, reddish-yellow, grows well above the ground and easy to pull.

**DARK RED GIANT ECKENDORF.** Is of cylindrical form and grows mostly above the surface and, like the Sludstrup, is very easy to pull.

**GIANT HALF SUGAR MANGEL.** The roots of this new mangel are more valuable, pound for pound, than those of the best strain of sugar beet supplying food of very much higher nutritive value and not only are they of better quality but they yield more than twice as much.

**GOLDEN TANKARD.** A superior strain of golden fleshed mangel; root half long and very large. It is particularly rich in milk-producing qualities. Is very easily pulled exceedingly hardy.

**MAMMOTH LONG RED (Dignity).** This is truly a mammoth, a single root often weighing 30 pounds. Enormously productive, smooth and regular in shape, with a small top. They grow half above the ground, and are easily harvested.

**LANE'S IMPERIAL SUGAR.** This beet grows to a large size, will yield almost as much in bulk as the best mangels, and contains a large percentage of sugar.

**KLEIN'S WANZLEBEN SUGAR BEET.** This is the genuine Sugar Beet. The variety used exclusively by beet sugar factories. Owing to the great amount of saccharine matter it is a great stock fattener. Price, pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 25c; lb., \$1.25; postpaid.

**PRICE ON ALL ABOVE MANGELS AND SUGAR BEETS EXCEPT KLEIN'S WANZLEBEN:** Oz., 10c;  $\frac{1}{2}$  lb., 35c; lb., \$1.00; postpaid. By freight or express, 5 lbs., \$4.50; 10 lbs., \$8.50.



Dark Red Giant Eckendorf

The simplest method of keeping root crops in good condition for winter use—store in cool cellar in boxes, etc., and cover with dry sand or fine soil, thus excluding the air. They will keep as solid as when freshly dug, and are ready for use at any time.

**MARKET GARDEN PRICES ON SEEDS SEE PAGES 24 and 25**



# RAPE

## Dwarf Essex

Sow  
Five  
Pounds  
to  
the  
Acre

Grows two to four feet high. Produces from 25 to 30 tons of green fodder to the acre.

Produces feed in from six to ten weeks from sowing.

This is an ideal sheep feed, easily grown; perfectly hardy and possesses remarkable fattening properties. One acre will pasture 36 head of sheep two months and lambs will make a gain of 8 to 12 pounds a month. Pigs and cattle are also very fond of it. It is a rank grower and should have heavy manuring as well as high cultivation. Any corn soil will grow Rape. Sow the seed by the end of June and the crop can be ready to feed at a season when it is most needed. It does well sown with oats. After oats are cut the rape grows rapidly. If the soil is rich and clean, sow broadcast if not so clean, sow in drills and cultivate as for corn. When sown broadcast use 5 lbs and if in drills 2 lbs. to the acre. True Dwarf Essex Rape, our own importation. Prices, Genuine Imported. Dwarf Essex Rape, per lb., 30c; postpaid. By freight, per lb., 20c. Write for quantity prices.

## COW PEAS

Highly recommended to plant with oats or kaffir corn, increasing the fertility of the soil for the succeeding crop and leaving the ground mellow and clean from weeds. Do not plant until the weather has become warm; sow 2 bushels if alone and 1 bushel if with other seeds.

**WHIPPORWILL.** Early bunch-growing variety. Price, per lb., 20c; postpaid. By freight, 10c per lb. Write for quantity prices.

**NEW ERA.** An early variety. Maturing seed in from 80 to 100 days. Probably the best sort for North and West. Can be sown after wheat is taken off the ground and still produce a good crop of forage or peas. Prices, by mail, 20c lb.; postpaid. By freight, 10c per lb. Write for quantity prices.

## FIELD PEAS

**CANADA FIELD PEAS** (60 lbs. to bushel.) With oats 14 bu. per acre, 2 bu. per acre if alone. Very valuable for cattle feeding. Excellent for horses and pigs when sown with oats. Farmers will find it very profitable to sow these peas with oats for feed. We have a splendid grade of Northern grown fancy seed. Sow broadcast and harrow in. Price, 25c lb.; postpaid. By freight, 18c per lb. Write for quantity prices.

## VETCHES

**WINTER VETCH.** (*Vicia Villosa*). The Winter Cover Crop. Also called Sand or Hairy Vetch. Is a hardy legume sown in Northern States in the fall months; growing well that season, and remaining green all winter. It supplies a place in the North that the less hardy crimson clover does in the South. As a winter cover crop, it prevents washing or leaching of soil during the winter, and at the same time a nitrogen gatherer it enriches the soil. Vetch also furnishes a very valuable hay or pasture. Drill for cover crop 10 to 20 lbs. per acre. For the hay use 1 bu. Price, per lb., 40c; postpaid. By freight, per lb., 30c. Write for quantity prices.

**SPRING VETCH or TARES** (*Vicia Sativa*).—Oregon Vetch). Sown broadcast at rate of 1 to 1½ bushels to acre like wheat or barley and sometimes mixed with oats, for soiling. Valuable for orchard. Used in France and Canada as a substitute for peas. Culture same as field peas. Price, per lb., 30c; postpaid. By freight, per lb., 20c. Write for quantity prices.

## SOJA OR SOY BEANS

A valuable legume somewhat on the order of cow peas is coming more and more into use. We call special attention to our Northern grown seed which we offer this year. Price, per lb., 20c; postpaid. By freight, 15c per lb. Write for quantity prices.

## HOG PASTURE MIXTURES

**MIXTURE FOR PERMANENT HOG PASTURE.** This will be considered very heavy seeding and expensive, but if you have a hog pasture for keeps, you cannot afford to skimp on seed or limit the varieties. Alfalfa

Mammoth Clover, Red Clover, Alsike Clover, White Clover, Timothy, Blue Grass, Orchard Grass, Meadow Fescue. 25 lbs. per acre, for \$6.00; per 100 lbs., \$23.00. Write for prices in larger lots.

## GRISWOLD'S READY QUICK

Good for one season only

Our annual "Ready Quick" Hog Pasture Mixture is good for one season only. It is especially good for hogs but equally desirable for cattle, sheep, calves and cows. It contains 14 different grains and forage plant seeds, practically all of which grow again if fed down.

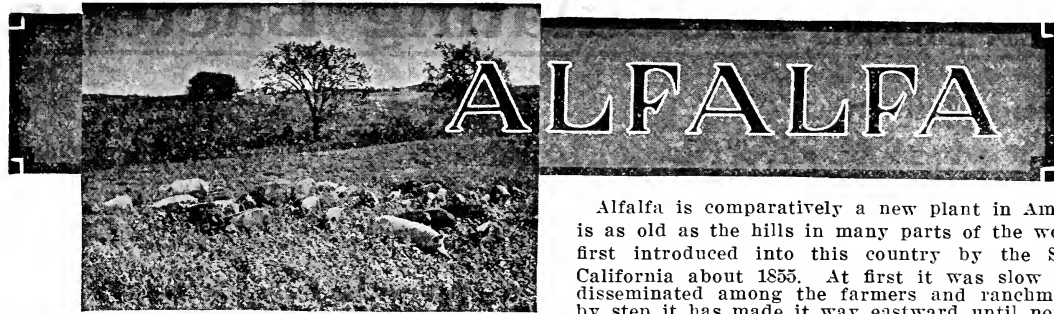


Price, 50 lb. (for 1 acre), \$3.25; 100 lbs., \$6.25; 500 lb. lots or over, \$6.00 per 100 lbs. In less than 50 lb. lots, 8c per lb., or 15c per lb.; postpaid.

Griswold's "Ready Quick" Hog Pasture Mixture can be sown early and be ready to pasture in 6 or 8 weeks and should be in the finest kind of condition in July or August, just when your other pastures are dried up. It can also be sown in July or August and used as a Fall Pasture.

We recommend sowing 50 lbs. to the acre, and if your ground is very rich and strong we would say sow 75 to 100 lbs. and by all means keep it fed down, as the stock eat it better when it is young and tender. Be sure and give this valuable Mixture at least a small trial, as you cannot possibly make any mistake by sowing it.

**PRICES OF FIELD SEEDS SUBJECT TO MARKET CHANGES**  
**GARDEN TOOLS AND IMPLEMENTS LISTED ON PAGES 74, 75 and 76**



Mississippi, in fact, it has been successfully tried in about every state in the Union and "has made good everywhere" until now it can positively be asserted that Alfalfa can be successfully grown everywhere that Red Clover will grow and in many places where it cannot be grown at all.

Alfalfa is a perennial plant of upright growth, growing sometimes 3 feet high. The nature of the leaves is somewhat like clover although not as large. The flowers are a purplish blue and appear in sprays. The seeds are small, yellowish green, kidney shaped of about the size of a pin head.

**SUITABLE SOIL.** Alfalfa makes a strong and rapid growth on well drained, rather heavy land, which is supplied with some lime, and where the subsoil, while not necessarily sand or gravel, is porous. On sand soil the growth is vigorous, when moisture is abundant, but during drought it will suffer unless the roots reach water at a depth of 8 to 10 feet. The land should slope some, as alfalfa will not stand surface water.

**SEED BED.** The land must be free from weeds and the ground must be thoroughly pulverized and well packed. Alfalfa will frequently fail if seeded on freshly plowed ground. If it is necessary to plow the ground before seeding, do it early, harrowing thoroughly and sow after a good rain has settled it.

**SPRING SEEDING.** Sow seed broadcast or with drill from March to June 15, at the rate of 20 pounds to the acre.

**FALL SEEDING.** Disk oat and wheat land as soon as the crop is cut, and then harrow or disk every 10 days until a suitable time for sowing before the 15th day of September when you can sow as above. Cut for hay the next fall. This is the best time to sow for all except Northern states, if you are sure of getting fall rains soon enough.

**TURKESTAN.** This is the same variety as the common alfalfa, but has been grown for years in the mountains of Turkestan, Asia, in a region where there is very small rainfall and with hot, dry summers, and dry, cold winters. A plant developed under such conditions could not be otherwise than hardy and strongly drouth-resistant and such has proved to be the case.

#### ASK FOR ALFALFA BOOKLET FREE. TELLS ALL ABOUT ALFALFA

**NEBRASKA GROWN SEED.** We are right in the center of the largest Alfalfa seed growing district in the United States. Nebraska grown Alfalfa seed has gained for itself a reputation of which we are proud. If you live east of the Missouri River we would advise you to INOCULATE your Alfalfa seed with bacteria before sowing. In the west where there is more sunshine it is not so necessary.

#### ALFALFA SEED PRICES

|  |             |                            |              |
|--|-------------|----------------------------|--------------|
| Alfalfa Lincoln brand 99.75% pure..... | \$23.50 cwt | Alfalfa, Turkestan .....   | \$23.50 cwt. |
| Alfalfa fancy .....                    | 22.50 cwt.  | Write for quantity prices. |              |

#### SWEET CLOVER. (Alfalfa's Twin Sister.)

**WHITE BLOSSOM or BOKHARA.** (*Melilotus Alba*.) This lives two years and then dies. It is the variety commonly referred to when "Sweet Clover" is mentioned and is the best for general use.

Sweet Clover is a legume having the same bacteria on its roots that grow on Alfalfa. Consequently it supplies nitrogen to the soil and prepares the way for Alfalfa.

**Where to Plant.** Valuable for building up worn-out soils. It is not usually advisable to plant it where Red Clover or Alfalfa flourishes, as the crops are commonly more valuable to the grower. However, some are planting Sweet Clover in preference to other pasture crops.

It grows in a variety of soils—heavy light, wet or dry, almost anywhere except in acid soil. But it does best on a firm, well drained soil which is rich in lime. The Montana Experiment Station recommends it for improving alkali soils. It is a splendid green manure crop for plowing under as it supplies so much humus and nitrogen to the soil.

**Culture.** Sow the seed at the rate of 15 to 20 lbs. per acre with a nurse crop of grain or alone, in well prepared fields in April or May. Cover the seed very lightly. It may follow a cultivated crop by preparing the seedbed with surface-working implements. If the soil is plowed, this should be done several weeks before seeding.



Sweet Clover

#### GOOD AS ALFALFA

Many farmers claim that the forage from this plant is just as good as Alfalfa and just as readily eaten by the stock after they have become accustomed to it.

#### TIME TO CUT

If cut for hay it should be cut when about two feet high and before the stem is woody. If cut just before the seed is matured, two years in succession, the plant dies out entirely.

Price, hulled seed, per lb., 35c; postpaid. By freight, 5 lbs., \$1.50; 10 lbs., \$2.76. Write us for quantity prices. When you are ready to buy ask us for prices and give the amount of seed you will need. We have cheaper grades than listed above and they will give good satisfaction. Get our prices and samples.

**ALL FIELD SEEDS SUBJECT TO MARKET CHANGES**

# GRISWOLD'S LINCOLN BRAND Inoculating Bacteria

Hastens Maturity

Increases the Yield

Builds up the Land

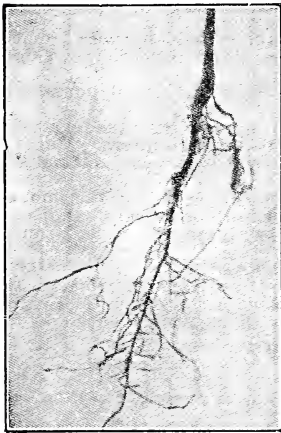
Enriches the Soil

Improves the Feeding Value

**EASY TO APPLY**—Simply Moisten the Seed Before Sowing

**Full Directions in Every Package**

ROOT OF ALFALFA



NOT INOCULATED

## PREPARED FOR

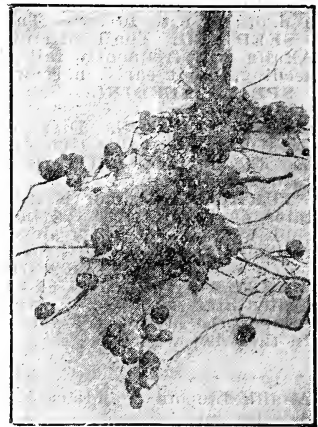
|                       |                |
|-----------------------|----------------|
| ALFALFA               | SWEET CLOVER   |
| SOY BEANS             | RED CLOVER     |
| COW PEAS              | ALSIKE CLOVER  |
| FIELD BEANS           | CRIMSON CLOVER |
| NAVY BEANS            | VETCH          |
| CANADA PEAS           | SWEET PEAS     |
| GARDEN BEANS          | GARDEN PEAS    |
| AND ALL OTHER LEGUMES |                |

## PRICES

|                  |        |
|------------------|--------|
| Garden Size..... | \$0.45 |
| 1 Acre Size..... | .75    |
| 2 Acre Size..... | 1.40   |
| 4 Acre Size..... | 2.25   |
| 6 Acre Size..... | 3.00   |

Add 5c per bottle for postage.

ROOT OF ALFALFA



INOCULATED

When ordering, state crop to be inoculated—there is a different bacteria for each legume.

### PURE CULTURE METHOD CHEAPEST AND MOST EFFICIENT

"All legumes grown either for the purpose of enriching the soil or for the crop must, in order to be of the greatest benefit to the land and the plants, be provided with the nitrogen-fixing bacteria. It is believed that the artificial culture is the method most efficient, cheapest, and freest from objectionable qualities."—Ext. Bulletin No. 71, Bureau of Plant Industry.

### LEGUMES CANNOT ENRICH THE SOIL UNLESS BACTERIA DEVELOP THE NODULES

"The peculiar value of legumes for maintaining and increasing the fertility of soils is due to certain bacteria which develop nodules upon the roots of leguminous plants and which have the unique power of rendering the free nitrogen of the atmosphere available for plant growth. Without these bacteria, legumes, like other crops, exhaust the soil of its combined nitrogen."—Ext. Farmer's Bulletin No. 315.

Inoculated legumes, alfalfa, clover, peas or beans, will draw from the air 150 pounds per acre of free nitrogen, adding it to the soil for the benefit of future generations of crops. This is nearly as much nitrogen as is contained in 1000 pounds of Nitrate of Soda, worth today \$100.00 per ton.

Raise legumes—grow alfalfa, clovers, soys, vetch, peas—they are valuable feed crops—but give them the utmost chance. INOCULATE them and they will draw from the air the free nitrogen, giving the plants a tremendous growth, vigor and vitality, increasing both the yield and the quality. They will not only supply themselves with nitrogen, but will draw far more than the present crop can use, storing the balance in the nodules, and from thence, as they decay, into the soil, where the future crops can get it, all of it.

Will your land now grow alfalfa, clover, soys? If it does, it will grow larger and better crops by inoculation. If you can't grow these crops successfully, try inoculation. It is probably just what you need to secure success.

Seed, labor, land—all cost money. Get the utmost out of them. A few dollars spent for inoculation will come back to you many fold.

**INCREASE YOUR CROPS—THE WORLD NEEDS THE FOOD**  
**INOCULATE—TAKE NO CHANCES OF FAILURE—INOCULATE**

Our Clover Seeds are of the Highest Quality  
and Thoroughly Cleaned and Tested

# CLOVERS

60 lbs. to Bushel. Sow 20 lbs. to Acre

FOR SCARIFIED CLOVER SEED ADD \$1.00 PER BUSHEL TO

## PRICES BELOW

Every farmer should have some land sown to clover. It is of the greatest value for plowing under for supplying humus and nitrogen, greatly enriching the soil and increasing the following crop yield from 20 to 40%.

**MEDIUM RED.** (Common, or June Clover.) This is by far the most important of all the varieties for hay or pasture. Sow in Spring or Fall, and if no other grasses are used, at the rate of 8 to 12 pounds per acre. This clover is a biennial, and at best only lasts three years unless it is allowed to reseed itself which should be done every two years. Fancy per lb., 60c; postpaid. By freight, per lb., 50c. Write us for quantity prices.

**MAMMOTH RED.** (Saplin, or Vine Clover.) Quite distinct from Common Red Clover. It lasts longer and is two or three weeks later than the Common Red Clover, grows from 3 to 5 feet high and yields an enormous amount to the acre, especially valuable for hog feed and for plowing under green on worn out lands. Sow 12 lbs. to acre. Price, per lb., 60c; postpaid. By freight, per lb., 50c. Write us for quantity prices.

**ALSIKE.** (Swedish Clover.) One of the hardiest of all clovers. This clover is very nutritious, yields abundantly and can be cut several times during the season. It is good for pasture, green fodder or hay. The roots do not heave like those of Red Clover and for this reason it is especially

**WHITE DUTCH CLOVER.** Best adapted to moist soils, but does well on any land. Sow 8 lbs. to acre. Price, per lb., 85c; postpaid. By freight, per lb., 75c. Write us for quantity prices.

adapted for wet moist places. It does well on most any soil and resists the severest cold and extremes of drought and wet. We advise farmers to sow 2 or 3 pounds of this seed with their Red Clover and Timothy. If alone sow 8 lbs. to the acre. Price, per lb., 60c; postpaid. By freight, per lb., 40c. Write us for quantity prices.

## Grass Mixture

**MIXTURE FOR LOW, DAMP SOIL.** Can be cut for hay but better for pasture. Kentucky Blue Grass, Red Top, Meadow Fescue, Alsike Clover, English Rye Grass and Timothy. Price, 20 lbs., per acre, \$4.50; per 100 lbs., \$21.00.

**MIXTURE FOR HIGH LAND.** Good for pasture and hay. Brome Grass, Meadow Fescue, Orchard Grass, Timothy, Alfalfa and Red Clover mixed in proper portions. Price, 20 lbs., per acre, \$5.00; per 100 lbs., \$23.00.

**UNIVERSITY GRASS MIXTURE.** This is a special mixture recommended by the University Experiment Station as the best for pasture. We mix it in the right proportion and use only the very best grade of seed. Brome Grass, Meadow Fescue, Orchard Grass, Alfalfa. Price, 24 lbs. per acre, \$6.50; per 100 lbs., \$26.50.

## TABLE OF WEIGHTS OF GRASS AND FIELD SEEDS

Showing Number of Pounds to the Bushel and Amount of Seed Necessary for an Acre

|  | No Lbs.<br>to Bu. | No. Lbs.<br>to Acre |                                       | No Lbs.<br>to Bu. | No. Lbs.<br>to Acre |
|--|-------------------|---------------------|---------------------------------------|-------------------|---------------------|
| Alfalfa .....                            | 60                | 15 to 25            | Milo Maize .....                      | 56                | 4 to 6              |
| Alsike Clover .....                      | 60                | 6 to 8              | Millet (except as noted) .....        | 50                | 25 to 50            |
| Barley .....                             | 48                | 48 to 96            | Oats .....                            | 32                | 32 to 64            |
| Beans .....                              | 60                | 30 to 50            | Onion Sets, top .....                 | 28                |                     |
| Billion Dollar Grass .....               | 40                | 10 to 15            | Onion Sets, bottom .....              | 32                | 320 to 400          |
| Buckwheat .....                          | 50                | 25 to 40            | Orchard Grass .....                   | 14                | 25 to 30            |
| Broom Corn .....                         | 46                | 10 to 12            | Pearl Millet .....                    | 50                | 5 to 8              |
| Brome Grass .....                        | 14                | 25 to 40            | Peas, field or smooth garden .....    | 60                | 90 to 120           |
| Blue Grass, Kentucky .....               | 14                | 25 to 30            | Peas, wrinkled .....                  | 56                |                     |
| Cane in Drills .....                     | 50                | 6 to 8              | Peanuts .....                         | 24                | 24 to 30            |
| Cane, for Fodder Broadcast .....         | 50                | 100 to 150          | Pencilaria .....                      | 50                | 5 to 8              |
| Clover, Alsike .....                     | 60                | 6 to 8              | Potatoes Irish good measure .....     | 60                | 480 to 600          |
| Clover, Red .....                        | 60                | 12 to 15            | Potatoes, sweet .....                 | 50                |                     |
| Clover, White Dutch .....                | 60                | 6 to 8              | Rape .....                            | 60                | 5 to 6              |
| Corn .....                               | 56                | 8 to 10             | Red Top .....                         | 14                | 20 to 30            |
| Corn on Ear .....                        | 70                |                     | Red Clover .....                      | 60                | 12 to 15            |
| Cow Peas .....                           | 60                | 60 to 90            | Rye .....                             | 56                | 72 to 90            |
| English Blue Grass (Meadow Fescue) ..... | 24                | 21 to 28            | Rye Grass, English or Perennial ..... | 24                | 50 to 60            |
| Flax .....                               | 56                | 28 to 42            | Speltz, or Emmer .....                | 48                | 80 to 120           |
| Hemp .....                               | 44                | 30 to 60            | Sweet Clover .....                    | 60                | 6 to 8              |
| Japanese Millet .....                    | 40                | 10 to 15            | Timothy .....                         | 45                | 15 to 20            |
| Johnson Grass .....                      | 25                | 25 to 50            | Wheat .....                           | 60                | 60 to 90            |
| Kaffir Corn .....                        | 56                | 50 to 100           |                                       |                   |                     |

ALL FIELD SEEDS SUBJECT TO MARKET CHANGES

## Grasses

**KENTUCKY BLUE GRASS.** This valuable grass is very productive, usually early and very desirable as a pasture grass. It comes in the spring and with a few rains during the summer will make good pasture until late fall. It is surprising how well this grass does West, even during the dry season. It is very desirable for lawns. Price, per lb., 40c; postpaid. By freight, per lb., 30c; 50 lbs., \$14.00; 100 lbs., \$27.50. Write us for quantity prices.



Kentucky Blue

**ORCHARD GRASS.** (14 lbs. to the bu.;  $1\frac{1}{2}$  to 2 bu. per acre.) Because of its rapid growth orchard grass is one of the most valuable and popular of our domestic grasses. It is hardy and may be grown anywhere in the United States, except the extreme South and the arid regions of the West. It is a very hardy perennial vigorous grower and does as well in shade as in sunshine. It is about two weeks earlier than timothy and one of the last to succumb to frost in the fall.

The tendency of Orchard Grass to grow in tufts may be overcome by thorough preparation of the ground and liberal seeding or sowing with other grasses. It may be sown with good results at most any time from January to September, inclusive. Sow (if alone)  $1\frac{1}{2}$  to 2 bushels per acre. Price, per lb., 40c; postpaid. By freight, 35c per lb. Write us for quantity prices.

**MEADOW FESCUE or ENGLISH BLUE GRASS.** (14 lbs. to bu. Sow 21 to 26 lbs. per acre.) Hardy and very valuable for good feed and pasture. Starts early in the spring and lasts until November and December. Just the grass for permanent pasture or meadow. Meadow Fescue grows luxuriantly, the blades being broad, tender and nutritious, and springs up quickly after



Meadow Fescue

cropping. It starts early in the spring, affording most excellent grazing by March 20 or 30, and in the fall will frequently keep cattle fat until late in November. For hay it should be cut soon after the blossoms fall. Price, per lb., 40c; postpaid. By freight, per lb., 35c. Write us for quantity prices.

**CANADA BLUE GRASS.** This is the blue grass of Canada New York and the New England states. It does better on poor, clayey, thin soils than on rich land. It is smaller, grows closer to the ground and stands cold and drought better than Kentucky Blue Grass. Has a very blue color and flattish stems. Very nutritive and really a valuable grass. Not desirable for lawn. Price, per lb., 30c; postpaid. By freight, per lb., 25c. Write us for quantity prices.

**TIMOTHY.** This grass is used exclusively for hay and does well on most any soil. Sometimes grows to the height of 4 feet on rich loam. It is exceedingly nutritious, particularly when ripe. This grass is also used for pasture. It is, however, better for hay and is sown mostly with Red Clover. Price, per lb., 25c; postpaid. By freight, per lb., 15c. Write us for quantity prices.

**ENGLISH or PERENNIAL RYE GRASS.** This grass is considered invaluable for permanent pasture grass. Produces an abundance of remarkably fine foliage and soon forms a compact sod. After being cut it grows quickly and remains bright and green through the season. It is also a good variety for hay if cut when in blossom, as it is then most nutritious. Flourishes best in moist soil. Price per lb., 25c; postpaid. By freight, per lb., 20c. Write us for quantity prices.

**RED TOP.** Valuable either for mixing in hay or permanent pasture grass. Succeeds almost everywhere but does best in moist, rich soil. It is being sown with Alsike in Western Nebraska, with a great deal of satisfaction. It is often sown with Timothy and Clover. Price, Fancy hulled, per lb., 30c; postpaid. By freight, per lb., 25c; Fancy unhulled, per lb., 25c; postpaid. By freight, per lb., 25c. Write us for quantity prices.



Bromus Inermis

### GRASS SEED MIXTURES, SEE PAGE 31

### BROMUS INERMIS

Grows in Dry, Semi-Arid Regions. Very Resistant to Drought and Freezing. Lengthens Season of Green Pasture. 14 lbs. to bu. Sow 20 lbs. per acre.

Nebraska Experiment Station says: This is one of the principal grasses grown in the dry and semi-arid regions of Russia and Siberia. It starts very early in the spring, and continues growth until late in the fall. Brome grass spreads by means of underground rootstalks. As a hay crop, the grass usually furnishes good cuttings for two or three years, sometimes cutting three tons of cured hay per acre, after which the sod becomes so root-bound that the grass does not grow tall enough for hay (this can be overcome by disking) but will furnish the best pasture for several years.

#### TIME TO SOW BROME

If plenty of moisture is present it is best to sow in the fall otherwise it is better to sow in the spring. It is sometimes sown with winter wheat. It is recommended to sow with alfalfa where the latter is to be used as pasture. Price, per lb., 35c; postpaid. By freight, per lb., 25c. Write us for quantity prices.

When in the market for grass and field seed, write for our latest price list, some kinds may be cheaper.

#### GOOD BOOKS

On page 3 you will find a list of Books on Rural Topics. These are written by experts in this line. Look them over and order the ones that most interest you. They are only 50c ea.

PRICES ON ALL GRASS SEEDS SUBJECT TO MARKET CHANGES



Good seed is primarily essential in the production of good crops. An ear of average Dent Corn contains about 800 grains, which is sufficient to plant 160 hills with 5 grains each; or more than enough to cover one-half acre if the hills are  $3\frac{1}{2}$  feet apart each way. From this it is easily seen that the loss to a farmer would be considerable if he planted but one bad ear of seed to a field. Our seed corn is butted and tipped and tested for germination before being sold.

**GOLD MINE.** The grain is a rich golden, shining like new coin from the mint; dent, long, deep; kernel often over three-fourths of an inch long. This corn will shell more pounds to seventy pounds of ears than any corn we know of. Seventy pounds of Gold Mine on the ear will make 62 to 63 pounds of shelled corn. This is the smallest proportion of cob of any variety.

**HOGUE'S YELLOW DENT.** This corn is highly endorsed by the State Experimental Station and is one of the very best corns for Nebraska and Kansas. Ears are medium size to large, maturing in about 100 days.

**IMPROVED LEAMING.** A rich golden dent corn, good sized ears, rich in protein. Owing to the deep, bright color, smooth, tapering ear, and solidity and weight of this corn, it is in high demand by shippers, either for ear corn or shelled. It is a very productive sort, and because of the smooth, even surface, it is much nicer to handle than the rough, hackled sorts.

**IMPROVED IOWA SILVER MINE.** Silver Mine is the most popular White Corn grown in the corn belt. It is a pure white dent corn with ears of good size and is inclined to be well over the butts and tips. It is early, yields heavy, has deep grains, stands up well and will probably grow more corn to the acre on thin land than any other variety. It yields enormously on heavy land.

**NEBRASKA WHITE PRIZE.** Ears are large and well filled at both ends, the white cob being hardly visible. Is medium late, and yields frequently 75 bushels to the acre.

**WHITE CAP BUTCHER.** A medium yielder, early red corn with white cap; will mature in 85 to 90 days and be good and sound.

**CALICO.** That fine, large, variegated corn that always yields well and makes big ears. This corn always gets ripe before frost.

**IMPROVED REID'S YELLOW DENT.** Has a wide reputation and is endorsed by more experiment stations than any other corn grown. Has heavy stalks with an abundance of blades, making extra fine fodder. It will ripen in 90 to 100 days will yield from 50 to 80 bu. per acre ordinary farming.

**PRIDE OF THE NORTH.** This is a well known variety; beautiful, deep dented, fine golden color, 8 to 9 inches long, with small cob and very long and deep kernels. A tremendous sheller. Seventy pounds of ears will make 60 pounds of shelled corn. Stalks grow to about  $7\frac{1}{2}$  feet, are short jointed and leafy average distance base of ear from ground is 3 feet. Two well developed ears are frequently found on one stalk. Yields 40 to 75 bushels to the acre. Ripens in 85 to 90 days. Is hardy and vigorous.

**WHITE FLINT.** The great feature of this variety is the large grains and small cob it produces. The ears are 12 to 15 inches long, smooth and symmetrical. Kernels are broad and flinty, and white in color. White flint makes a very sturdy and vigorous growth with a great abundance of broad, succulent leaves, and is of great value for fodder and silage as well as grain.

**YELLOW FLINT.** Similar to White, except color. Price on any the above corn:  $\frac{1}{4}$  bu., \$1.25;  $\frac{1}{2}$  bu., \$3.40; per bushel, \$4.50.

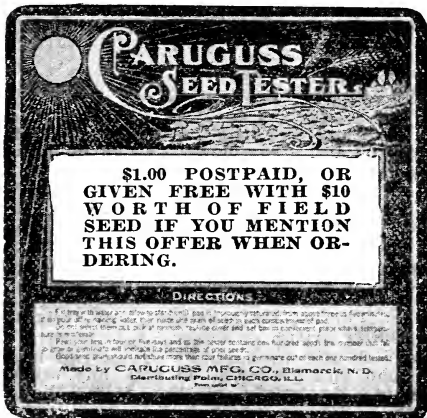
**BEFORE ORDERING A QUANTITY OF SEED CORN, WRITE US FOR PRICES.**

## POPCORN

**QUEEN'S GOLDEN.** The largest of all popcorns. The stalk grows five to six feet high, and bears two to three large ears each. It is yellow, but pops creamy white, and of excellent quality. Price, pkt., 5c; lb., 25c; postpaid.

**WHITE RICE.** A prolific variety. Ears short; kernels long, pointed and white. Probably no variety of popcorn is superior to this for popping. Price, pkt., 5c; lb., 25c; postpaid. Ask for prices on popcorn in large lots.

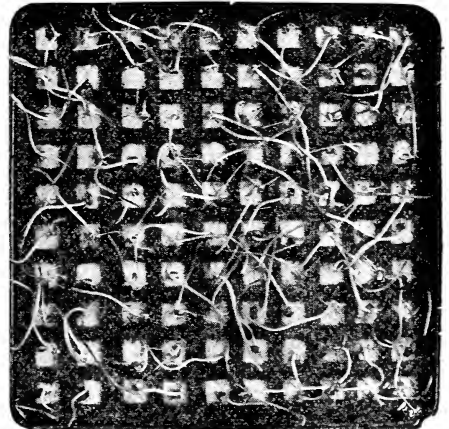
**BABY GOLDEN POPCORN.** Smallest popcorn in existence. It is very prolific, producing from 5 to 10 ears on a single plant. The stalks do not exceed 3 feet in height and the ears from  $1\frac{1}{2}$  to  $2\frac{1}{2}$  inches in length. The kernels are but very little larger than a kernel of rice, of a handsome, lustrous, light golden color, and pop without leaving any hard center. Price, pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c; postpaid.



The Cover

CORN  
PLANTERS  
AND  
SHELLERS  
LISTED  
ON PAGE  
77 and 78

Every corn planter should have this seed tester for testing his seed corn. There are 100 separate apartments in the felt for testing seeds. Requires little attention.



The Bottom of Tester

ALL FIELD SEEDS SUBJECT TO MARKET CHANGES

# SPRING WHEAT

SOW ABOUT 1½ BUSHELS PER ACRE

**MARQUIS WHEAT** was originated by Chas. and William Saunders of Ottawa, Canada, by crossing Red Fife and Hard Calcutta, a native Wheat of India which had become acclimated to northern conditions. The first experiments were conducted in 1886, and it was not until 1903 that it was fully developed. By scientific cross breeding, a variety was produced that inherited the remarkable earliness of the Calcutta, and the frost-resistant and yielding qualities of the Red Fife. The original stock of seed was very small, but by careful husbandry the amount was gradually increased so that it might be disseminated throughout America.

**Appearance.** Marquis Wheat is similar in appearance to Red Fife, but the heads, as a rule, are heavier and the straw shorter, making it less likely to lodge. The kernel is flinty, a little darker in color than Red Fife, being dark red, and more plump than that variety. It is beardless, having smooth, yellow chaff. Under certain climatic conditions a small percentage of the heads sometimes show a reversion to the Hard Calcutta parent by bearing beards. Otherwise these heads are identical with the bald heads, maturing at the same time and containing the same size and shape of kernel. It weighs from 64 to 66 pounds to the measured bushel. Price, ¼ bu., \$1.00; ½ bu., \$1.60; 1 bu., \$3.00. Write for quantity prices.

**MACARONI OR DURUM WHEAT.** Sent out by the United States Department of Agriculture under strong recommendation as to its great value for semi-arid lands where good crops of Spring Wheat could not ordinarily be produced, has more than justified every claim made for it. The acreage of this variety is increasing every year in spite of the opposition of some millers. It outyields by far any other variety of Spring Wheat, and it has been demonstrated that it makes bread superior to that made from the best Fife Wheat flour, and has proved to be practically immune to the dreaded rust. In growing it resists extremes of weather which no other Wheat will endure. Price, same as Marquis.



Marquis Wheat

## Oats-Kherson

**KNOWN AS UNIVERSITY OATS NO. 1.** Hardy and good yielder. Largest yielder in Nebraska, 80 to 112 bushels to acre two to three weeks earlier than common oats. These Oats originally came from Russia, where they were known as the best extra early, hardy, good yielding Oats. Kherson Oats, when ripe are a beautiful yellow in color. They have fine large sprangles or full heads. The leaves are broad and extend nearly to the roots. They are a good yielder under favorable conditions. They do much better than many other varieties in dry seasons, giving a fair crop when other varieties yield hardly 10 bushels to the acre. This variety is especially adapted to soils where others would lodge as it has a short, stiff straw, bearing grain nearly one-half its length. It is an immense yielder and on account of its earliness usually escapes rust when other varieties may be entirely ruined. Kherson Oats ripen with barley and the extra early wheats, hence they make splendid succotash mixtures when grown together. We have a fine lot of Kherson Oats for seed. Price, 1 bu., \$1.00; 5 bu., \$4.75. Write for quantity prices.

## White Kherson Oats

**WHITE KHERSON OATS.** Known as Uni. Oats No. 21. Almost every farmer knows about Kherson Oats, but very few, up to a year ago, had ever heard of WHITE KHERSON OATS. The White Kherson Oats have been bred up by the University of Nebraska from the original Great Kherson Oats. This oats is even heavier than the common Kherson and is a nice bright white. Last year was the first year we put them on the market. We expected to have a big trade on them and our expectations were more than realized. Price, 1 bu., \$1.20; 5 bus., \$5.75. Write for quantity prices.

**SWEDISH OATS.** Swedish Oats have given such general satisfaction that we know many will still adhere to this favorite. For the benefit of these we have secured seed which is of the usual high standard. At the Wisconsin Experiment Station it has stood at the head of the list for several years, having been distributed by that station as Wisconsin No. 4. Prof. Moore of Wisconsin says of the Swedish Oat, "The most satisfactory of all." Prof. Carleton of U. S. Department of Agriculture says, "Probably the best American Oat." Price, 1 bu., \$1.10; 5 bus., \$5.25. Write for quantity prices.

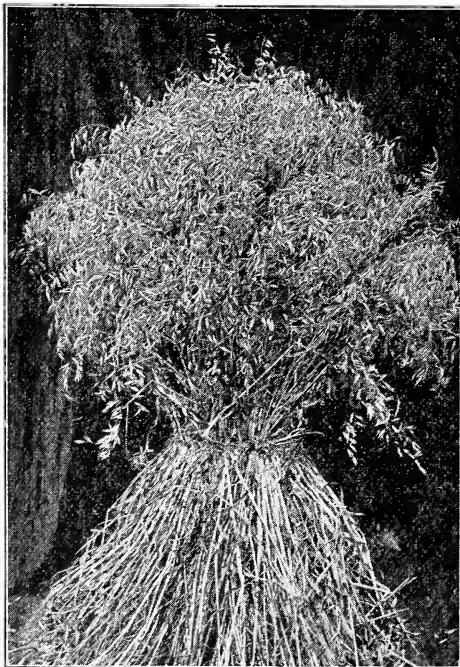
## BARLEY WRITE US FOR QUANTITY PRICES

**WHITE HULLESS.** A valuable variety, has large heads, plump kernels, both hullless and beardless and looks like large white wheat. Is two or three weeks earlier than any other barley and an immense yielder. Stools wonderfully sow only 1½ bushels per acre. Per lb., 15c; postpaid. By express, 100 lbs., \$8.00. Write for quantity prices.

**COMMON.** Succeeds best on lands more sandy and lighter than those adapted to wheat. Sow from 2 to 2½ bushels per acre. Per lb., 15c; postpaid. By freight, 100 lbs., \$4.50. Write for quantity prices.

**MANDSCHEURI.** It is an early six-rowed, bearded variety, maturing 80 to 90 days from the time of sowing; is very strong strawed and stools well, bearing large heads of plump grain, adapted to all kinds of soil and climate. Per lb., 15c; postpaid. By freight, 100 lbs., \$7.50. Write for quantity prices.

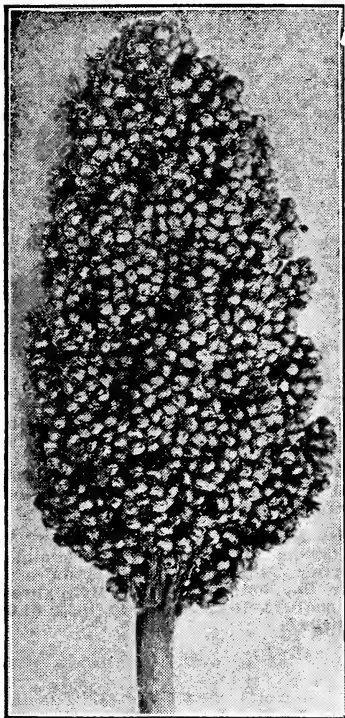
**CHAMPION.** It is beardless and nice to handle. Grows tall and stands up well. Straw is good and grows taller than any other variety. Per lb., 15c; postpaid. By freight, 100 lbs., \$8.00. Write for quantity prices.



White Kherson Oats

ALL FIELD SEEDS SUBJECT TO MARKET CHANGES

# Non-Saccharine Sorghums



## KAFFIR CORN

This is the most excellent plant, yielding two crops of fodder during a season. It grows from five to six feet high, making a straight upward growth. The stem, or stalk, bears numerous wide leaves. The stalks keep green and brittle and juicy, making an excellent fodder either green or dried, the seed is fine chicken feed.

It also seeds heavily, sometimes yielding 60 bushels to the acre. Both grain and fodder are excellent. The stalks remain tender to full maturity of seed. For fodder sow one to two bushels either broadcast or in drills. Price, per lb., 15c; postpaid. By freight, 50 lbs., \$2.75; 100 lbs., \$5.00. Write for quantity prices.

## MILO MAIZE

Milo Maize is an excellent grain for dry regions. It will yield 15 bushels to the acre under conditions so dry that corn will be a total failure. When fed with some succulent feed such as alfalfa, stock beets or sorghum, it makes fine feed for fattening cattle. To prevent waste Milo Maize should be fed in heads or ground. Plant 4 to 6 pounds per acre in rows and cultivate. Price, per lb., 15c; postpaid. By freight, 50 lbs., \$3.00; 100 lbs., \$5.50. Write for quantity prices.

## SUDAN GRASS

Sow in drills 2 to 3 lbs. per acre; broadcast 25 lbs. A new forage crop of immense value to the West.

SUDAN GRASS is thought to be the wild original form of our cultivated sorghums. Its close cellular construction makes it a plant capable of withstanding droughty conditions. Like Kaffir, it has power to "cell" its sap during extremely dry weather, thus enabling it to live for weeks, often without any visible growth, waiting for moisture. When moisture is received the plant resumes its growth and the crop matures. Sudan Grass is strictly an annual and dies each year.

After cutting it renews its growth promptly when moisture conditions are favorable and in about 40 to 50 days another cutting is ready.

SUDAN GRASS may be planted in cultivated rows, in close drills, or broadcast. It is very susceptible to frost, therefore the seed should not be planted until the ground is warm and the danger of frost is past. It should be planted as soon as safety will permit however, in order that it may have the maximum growing season, and give the greatest number of cuttings and the heaviest yield of hay. Price, per lb., 35c; postpaid. By freight, 5 lbs, \$1.20; 10 lbs., \$2.25. Write for quantity prices.

## JERUSALEM CORN

The best and surest grain crop for dry countries—even better than Kaffir Corn, Dhoura and Milo Maize. It grows from 3 to 5 feet high, makes one large head on the main stalk, and several smaller ones on the side shoots; well filled with valuable grain for stock and chicken feed. Eight heads sometimes grow on one stalk, the grains are pure white and nearly flat. Three pounds will plant an acre. Price, per lb., 20c; postpaid. By freight, 50 lbs., \$4.00; 100 lbs., \$7.00.

## FETERITA

This is one of the latest in non-saccharine sorghums. A new grain introduced into the United States from British Egyptian Sudan several years ago by the U. S. Department of Agriculture. It belongs to the same family as Kaffir Corn and Milo Maize and resembles these grains in some respects. It produces stalks of medium height with ten to twelve leaves and a large upright seed head, well filled with grain. The plants stool freely producing numerous smaller seed heads.

It matures a crop in 70 days—about three weeks earlier than Kaffir Corn. Price, per lb., 15c; postpaid; 50 lbs., \$3.00; 100 lbs., \$5.50.

## TEOSINTE

### 95 Tons Green Fodder per Acre

A forage plant that originated in Egypt, and which for a number of years has been grown successfully in the Southern states. It resembles corn somewhat in appearance, but the leaves are much longer and broader and contain sweeter sap. The yield is so abundant that one plant is considered sufficient to feed a pair of cattle for 24 hours. It suckers more than any other forage plant, generally producing 20 to 30 stalks from one kernel of seed, and growing to a height of 11 feet. Can be cut when 2 to 3 feet high and used for fodder, after which it will quickly grow up again. Can be cut two to five times in one season. The forage to be had estimated 300 tons per acre. Can be cut and fed in the green state, or it can be dried and makes a magnificent fodder for cattle during the winter months. Excellent results have been reported as far north as Iowa and southern Minnesota and Wisconsin. Price, per lb., (will plant 1 acre), 85c; 5 lbs., \$4.00; postpaid. 70c per lb, not postpaid.



## Cane or Sorghum

**FEEDING VALUE.** It is known quite definitely that an acre of sorghum will produce more food value, more pounds of beef or pork, when properly fed, than an acre of corn. The main use of the crop, however, is for a winter supply of forage, and it has this advantage over corn or any other kind of grain, that it can be sown late. It furnishes fodder in 70 to 90 days and matures seed in about 100 days.

**TIME TO SOW.** Sorghum may be put in almost any time up to the middle of July. June is the best time.

**HARVESTING.** Harvest as late as possible to avoid hard frost, in order that the fodder will retain its sweetness and succulence. When sown broadcast cut with a mower and allow to dry for a week or ten days, after which it may be put in shocks weighing about 500 pounds and allowed to stand until fed. Price, per lb., 15c; postpaid. By freight, 50 lbs., \$2.50; 100 lbs., \$4.50. Write for quantity prices.

**ALL FIELD SEEDS SUBJECT TO MARKET CHANGES**

**Before Ordering a Quantity, Write for Our Latest Prices**

## Speltz or Emmer

This new grain was first introduced into this country years ago, and has proven of great value. It has become a staple crop in all sections of the West and Northwest and its position in the list of grains is thoroughly established. It is grown and handled in the same manner as barley, though many feeders do not thresh it but feed direct from the stack or shock. It is really better to thresh it as the process breaks up the beards and straw so that the animals eat it more readily. It is a splendid feeding grain, in our opinion second only to corn, and in dry or cold sections where corn will not mature Speltz will be the very best live stock feed that can be produced. It is in the cold and arid regions that it thrives best, and will yield wonderful crops under adverse conditions. Price, per lb., 15c, postpaid; per 100 lbs., \$8.00. Write for quantity prices.

## Seed Flax

It will pay you to sow nice, pure, high-grade flax seed. For several years the available supply has not equaled the demand and prices have been very high. Our seed is thoroughly re-cleaned, free from mustard or any other weed seed and is as good as can be purchased anywhere. Don't buy flax seed on open market. It is generally full of weed seed. One of the most profitable crops, especially on new land. Price, per lb., 20c; postpaid. By freight, 10 lbs., \$1.25; 25 lbs., \$3.75; 100 lbs., \$10.00.

## Broom Corn

### 46 LBS. TO THE BUSHEL

**OKLAHOMA DWARF.** Possesses several features of merit which places it at the head of others, viz: Its earliness, dwarf habit (5 ft. high), robust growth, extreme productiveness, long, well-fibered brush and its ability to resist drought. Price, per lb., 20c; postpaid. By express or freight, 25 lb. lots, per lb. 10c. Write for quantity prices.

**IMPROVED EVERGREEN.** The best variety for general cultivation account of color and quality of brush. Price, per lb., 15c; postpaid. By freight, per lb., 10c. Write for quantity prices.

## Buckwheat

**JAPANESE.** This sort has proven to be much earlier and more productive than any other variety. The grains are very large and of rich, brown color. It excels in yield and earliness. Price, per lb., 20c; postpaid. By freight or express, 25 lbs., \$2.50; 50 lbs., \$4.50. Write for quantity prices.

**SILVER HULL.** A very good and popular variety. The grain is of light color, is rounder than the common variety, matures earlier, and yields a half more to the acre. Price, per lb., 20c; postpaid. By express or freight, per lb., 60c; 25 lbs., \$2.50; 50 lbs., \$4.00. Write for quantity prices.

## Millets

**WHITE WONDER MILLET.** Has been raised in western Kansas for several years and it is just as hardy and vigorous as other millets. The most striking feature of the White Wonder Millet is the size of the heads. The heads will run from eight up to eighteen inches and a single head will have as many as 15,000 seeds. Another very desirable feature of White Wonder Millet is its earliness. This variety is much earlier than German Millet but not quite as early as the Siberian variety. The foliage is very heavy, the leaves broad, and therefore it produces an immense amount of excellent fodder which cures very readily. Price, 15c per lb., postpaid. By express or freight, 25 lbs., \$2.00; 50 lbs., \$3.90; 100 lbs., \$7.50.

**HOG OR BROOM CORN MILLET.** This is grown for the same purpose for which other millets are sown, but makes inferior hay unless cut very young. It, however, yields enormously of seed, even 60 to 70 bushels to the acre, and this seed is very advantageously used for fattening swine and other stock, and is of special value for this purpose in sections where corn cannot be safely or cheaply grown. Seed also makes very fine feed for poultry and young chicks. It will mature in about two months from sowing the seed. Price, Fancy Re-cleaned Hog or Broom Corn Millet, per lb., 15c; postpaid. By freight, 50 lbs., \$3.00; 100 lbs., \$5.50.

**JAPANESE BARNYARD MILLET.** (Called "Billion Dollar Grass." owing to its high value. Its great-

est value is for green fodder, of which it yields 3 to 5 tons per acre. It is excellent for cows, producing more milk than corn fodder. It grows 6 to 8 feet high, and produces 50 to 90 bushels of seed per acre. It should be sown the latter part of May, 10 pounds per acre. Price, per lb., 15c; postpaid. By freight, 50 lbs., \$4.00; 100 lbs., \$7.50. Write for quantity prices.

**LIBERTY MILLET.** This grows very rank and is one of the best varieties for hay on account of being so sweet, palatable and milk-producing. On good, rich soil it will make a growth of 4 to 5 feet, and although the hay may seem coarse, yet it is so tender that if cut at the right stage, which is when in full bloom, even the hogs will eat the cured hay quite greedily. A yield of five tons of hay per acre is nothing unusual. Sow three pecks per acre. Price per lb., 15c; postpaid. By freight, 50 lbs., \$4.00; 100 lbs., \$7.50.

**SIBERIAN.** (Also called Red German, Dakota and Early Russian Millet.) It is from 2 to 4 weeks earlier than German millet, and can be cut for hay in 60 days from planting. The blades are wide, the straw fine and soft and does not make as much hay as German millet. It stools heavily. Sow  $\frac{3}{4}$  bu. broadcast or  $\frac{1}{2}$  bu. in drill to the acre for hay, on rich land. Price, per lb., 15c; postpaid. By freight, per 50 lbs., \$4.00; 100 lbs., \$7.50. Write for quantity prices.

**COMMON MILLET.** Price, per lb., 15c; postpaid. By freight, 50 lbs., \$3.00; 100 lbs., \$5.50. Write for quantity prices.

## Shrock Kaffir-Sorghum

### THE SEEDS THAT THE SEA-GULL SOWED

THE NEW MIRACLE FORAGE CROP—GREAT DROUGHT RESISTER—REMAINS GREEN UNTIL FROST WILL NOT HEAT IN STACK.

Three years of careful study, three years of rigid tests, three years of exacting comparisons, three years of painstaking experiments has demonstrated beyond a particle of doubt that we have a new and distinct type of Kaffir-Sorghum of surpassing merit.

### HARVESTING

**For Silage and Dry Fodder.** Cut with corn binder just before frost.

**For Grain Only.** Head with light corn knife or beet topper after frost. Stack heads like hay, rick 6 to 8 feet wide. If stacked right they never take water. Turn cattle into stalk-fields; they gnaw stalks into the ground.

**For Hay.** Cut with mower or wheat binder when heads are in the dough state, or beginning to harden.

**Uses.** Dry grain has same feeding value as White Kaffir and like White Kaffir for best results should be either ground or fed in the head.

Finest of poultry feed.

Makes best silage in the world because of soft, sweet stalk and immense amount of leaves and grain.

Price, lb., 35c; 5 lbs., \$1.50; postpaid. By freight, 10 lbs., \$1.25; 25 lbs., \$3.00; 50 lbs., \$5.50; 100 lbs., \$10.00.

**ALL FIELD SEEDS SUBJECT TO MARKET CHANGES**



# FLOWER SEEDS

**IT WILL PAY YOU TO READ THE FOLLOWING CAREFULLY**  
**GENERAL CULTURE.** A rather light and moderately rich soil thoroughly spaded, is most desirable. That the tiny seedlings may be seen and the weeds removed, it is better to plant all flower seeds in rows.

Sow the seed evenly in the rows, cover with the finest of soil, about three times the diameter of the seed, and press the soil firmly over the seed. Keep covered with cloth or paper till sprouts appear. The soil should never become dry after the seeds have been swelled, for if it does, they will be pretty sure to fail. Do not grow the plants too thick. Keep the weeds down and the surface of the soil well stirred with a hoe or rake during the summer especially if the weather is dry. A great many varieties can be sown in the house, if desired, early, and afterwards transplanted. Most plants will continue to bloom much longer if the flowers are picked, and not allowed to form seed. **Discount:** Any 4 of our Large 8c Packets for 25c.

## Seeds of Annuals

In this department we include both annuals that bloom and die the first year, and such perennials as flower freely the first year. For Perennials, see pages 54 to 57.

### FLOWER SEED—ALL PRICES POSTPAID

**ABRONIA** (Sand Verbena). 6 inch. Sweet scented, trailing plants, rosy-lilac flowers, borne in clusters. Suited for rockeries. Pkt., 8c.

**ACROCLINUM.** 2 foot. Daisy-like everlasting flowers; pink, white or mixed. Pkt., 8c.

**AGERATUM.** 5-inch. One of the best border flowers, blooming all summer; of easy culture. Grows 5 inches high. Blue or white. Pkt., 8c.

**AGROSTEMMA** (Rose of Heaven.) 1 foot. Attractive pink blossoms on long, slender stems. Very pretty in masses. Pkt., 8c.

**ALYSSUM.** 5 to 10 inches. Profuse bloomer, good for bordering or for bouquets; fine for window boxes. Sow very early.

Sweet. Fragrant white flowers. The old favorite. Pkt., 8c.

**Little Gem.** Dwarf and compact. Good for border. Pkt., 8c.

**Carpet of Snow.** Very dwarf trailing plant. Pkt., 8c.

**AMARANTHUS** (Tricolor Splendens—Joseph's Coat.) 2½ feet. The inner foliage is of blackest bronze, tipped with green, while the outer foliage is bright scarlet and gold. The colors are especially brilliant if grown in poor soil. Pkt., 8c.

**ANTIRRHINUM** (Snapdragon). Dark glossy leaves and beautiful spikes of flowers, with finely marked throats; one of the most showy border plants. Of easiest culture.

**Queen of the North.** Large, fragrant white flowers. Nice for pot-culture as well as borders. Pkt., 8c.

**Tall Sorts.** 18-inch. Mixed. All sorts of red and yellow; best for cutting. Pkt., 8c.

**Dwarf Sorts.** 8-inch. Mixed. Large variety of colors; best for edging. Pkt., 8c.

**ASTERS.** One of the most popular flowers for late summer and fall display. Sow seed early in deep soil with plenty of mulch.

**Hohenzollern.** Improved. The flowers are very large and double with curled petals on long stems very graceful; mid season to late blooming. White, blue, pink, lavender, purple or mixed. Pkt., 15c.

**Giant Comet.** A beautiful, distinct variety, resembling chrysanthemums, white and mixed colors. Pkt., 15c.

**Queen of the Market.** The best early aster flowering two weeks earlier than the other varieties. White, pink, scarlet, blue and mixed. Pkt., 8c.

**Branching.** Large, late-blooming, with long, strong stems. Mixed colors. Pkt., 8c.

**Betteridge Quilled.** Flowers large, freely produced, and of brilliant colors; height 12 inches. Mixed colors. Pkt., 8c.

**Truffaut's Peony Perfection.** Large and perfectly double, with beautiful curved petals, giving flowers a globular form. Mixed colors. Pkt., 8c.

**Chrysanthemum Dwarf.** Early flowering; 9 inches high. Good sized flowers, free bloomer. Mixed colors. Pkt., 8c.

**Started Plants.** Mixed colors. Per dozen, 50c; postpaid.

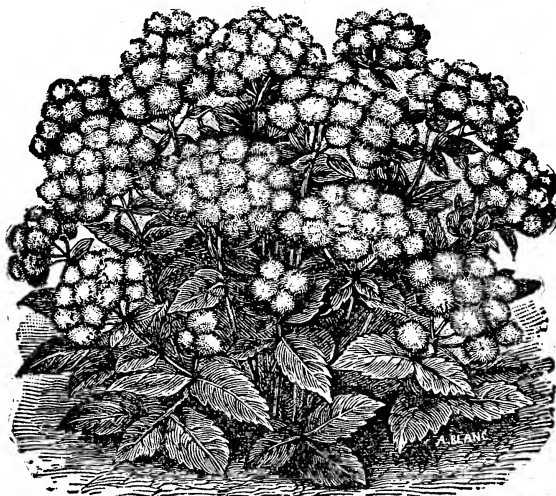
**BALSAM.** Sometimes called "Touch-Me-Not" or "Lady's Slipper." A tender annual growing about eighteen inches tall in the shape of a small tree and producing all along the branches showy single and double flowers like small roses. Should be grown in rich soil. T. A.

**Camellia-Flowered.** The best of all Balsams. Flowers very large, perfect in form, double and produced in abundance. Mixed colors. Pkt., 8c.

**BACHELOR'S BUTTON** (See *Centaurea Cyanus*), page 38 and *Globe Amaranth*, page 39.) Pkt., 8c.

**BUTTERFLY FLOWER** (See *Schizanthus*, page 41.)

**CASTOR BEAN** (See *Ricinus*, page 41.)



Ageratum

We frequently hear of Aster growers having trouble with the root aphid or green louse on the roots. This can be controlled and held in check by the free use of tobacco dust. Remove a little of the soil at the side of the plant and apply the dust, or make a strong "tea" by steeping tobacco stems, and water the plant with it. Better results can be obtained with Asters by planting them on a new plot of ground each year.



Calendula

For Fertilizer in the flower beds use "Red Snapper."

**CALENDULA.** The old "Pot Marigold." A very hardy annual with double yellow flowers, like double daisies. Blooms all summer and grows about 15 inches tall. Pkt., 8c.

**CALLIOPSIS** Very hardy and showy annual with bright yellow and reddish brown single daisy-like flowers easily grown and useful both for garden decoration and cutting. Sow early and thin to 6 inches apart. Mixed. Pkt., 8c.

**CANDYTUFT.** A free-flowering, hardy annual somewhat resembling Alyssum, but larger, with longer heads of bloom, fragrant and easily grown early in the season. Sow early where plants are to bloom.

**Empress.** A complete mass of pure white flowers. Valuable for bouquets. Pkt., 8c.

**Fine Mixed.** Red, pink, and white. Pkt., 8c.

**CANNA (Indian Shot).** Stately plants with handsome foliage and showy flowers. The seeds should be soaked 24 hours in warm water before planting. If sown in February, should bloom in July.

**Crozy's Dwarf Hybrid.** Saved from best and largest flowers only. All colors. Pkt., 8c.

**CELOSIA CRISTATA (Cockscomb).** Plumosa. About 2 feet high, of branching habit, with feathery plumes of brilliant red; one of the most effective ornamental plants.

**Tall Varieties.** Mixed. Pkt., 8c.

**Dwarf Varieties.** Mixed. Pkt., 8c.

**CENTAUREA.** There are two types of this plant one the "Gymnocarpa" or "Dusty Miller" a plant with silvery grey foliage and largely used for bordering formal beds, and the other, our old-fashioned Bachelor Button or Corn Flower Centaurea Cyanea, which is a very hardy annual flowering all summer and useful for cutting. Very easily grown.

**Cyanus. (Bachelor's Button).** Also called Blue Bottle, Ragged Sailor and Corn Flower. Is a hardy annual, coming up year after year from self-sown seed. Mixed. Pkt., 8c.

**Emperor.** Intense blue. Bachelor Button. Pkt., 8c. **Gymnocarpa (Dusty Miller).** Graceful, fine-cut, silvery white foliage. Nice for edging beds. Pkt., 8c.

**Imperialis. (Giant Sweet Sultan).** Double sweet-scented flowers borne on long, stout stems. Keeps for a week in water, if cut when about to open; 2 feet high; mixed. Pkt., 8c.

**CHRYSANTHEMUM. (Annual.)** Showy and effective arde nfavorigtes, extensively grown for cut flowers. The hardy annuals are summer flowering border plants, good for pot culture and quite distinct from the autumn flowering varieties. Choice mixed. Pkt., 8c.

**Clarkia.** Very pretty, free flowering annuals desirable for shady places. The flowers of rose white, red, purple, etc., borne in profusion during the summer; 1 to 2 feet. Mixed. Pkt., 8c.

**CLEOME. Pungens. (Giant Spider Plant).** Rose colored flowers with long stamens. A tall grower, and blooms freely until frost. Pkt., 8c.

**COLEUS.** The most popular of all foliage plants. Easily grown from seed, but must be started in a box in the house or hot-bed as the seed is very fine and when sown is scarcely covered, but must be kept moist. Tender annual. Pkt., 8c.

**COSMOS.** Autumn blooming plants of exceedingly graceful habit. The single star-like flowers are borne profusely in loose clusters, ranging in color from white through pink to crimson. The feathery spring green foliage well adapts it as a background for dwarfed flowers. If topped when half grown the plants bloom much earlier, the check inducing immediately flowering. Seeds should be sown early in the spring and the plants transplanted two feet apart when danger from frost is past. Grows 5 to 7 feet high.

**Lady Lenox.** Strong, vigorous grower, bearing shell-pink flowers of extraordinary size and substance. Excellent for cutting. Pkt., 8c.

**Mammoth Giant Perfection.** White, pink, red or mixed. Pkt., 8c.

**Early Flowering.** Comparatively dwarf plants producing both white and colored flowers, coming into bloom much earlier than the giant forms and will give a great profusion of bloom until late in the autumn. Mixed. Pkt., 8c.

**CYCLAMEN Giganteum.** They make flowering bulbs in one season if sown in sandy soil. Beautifully mottled leaves, immense flowers of great substance. Mixed colors. Pkt., 15c



Cosmos

**DATURA (Sweet Nightingale).** A large, strong plant, with trumpet-shaped, fragrant, pearl-white flowers; 3 feet. Pkt., 8c.

**DELPHINIUM (Larkspur).** Giant Hyacinth-Flowered. Mixed. 3 feet. Derives its name from the striking resemblance of the flowers to a double Hyacinth. The colors are both brilliant and delicate. Pkt., 8c.

**DIANTHUS.** Carnation-like flowers. Of value for bedding. The colors range from pure white to crimson spotted and striped. Perennial, but bloom the first summer, and for years, if the flowers are freely picked.

**Chinensis (Double Chinese or Indian Pinks).** Compact plants with large double flowers. Excellent for bouquets as well as bedding. Pkt., 8c.

**Heddewigi. (Double Japan Pinks.)** Much larger than the Chinese Pinks.

**Heddewigi Fireball.** Brilliant scarlet. Pkt., 8c.

**Heddewigi Snowball.** Pure white. Pkt., 8c.

**Heddewigi Midnight.** Blood red. Pkt., 8c.

**Heddewigi Mixed.** All colors. Pkt., 8c.

**ALL FLOWER SEED PACKAGES LISTED AT 8c ARE ALSO 2 FOR 15c.**

**DIMORPHOTHECA AURANTIACA.** (African Daisy). An extremely showy annual daisy from South Africa which suits our climate conditions perfectly. The bush plant grows 12 to 15 inches high. The flowers which are 2½ inches across, are a rich glossy orange yellow with dark disk and halo. These glitter in the sunshine and produce a magnificent sight when in full bloom. Seed may be sown in the same way as Asters or Petunias and should have a dry sunny position. They bloom the greatest part of the summer and fall. Pkt., 10c.

**ESCHSCHOLTZIA.** (California Poppy.) A hardy free-flowering annual growing about fifteen inches high and producing quantities of single, poppy-shaped blooms in shades of yellow, orange and red. Flowers over a long period. Sow early where it is to remain, as it will not bear transplanting.

California. All shades of yellow. Pkt., 8c.

**EVERLASTING.** (See *Acroclinium Celosia*, *Globe Amaranth*, *Gypsophila*.) Pick when flowers open and hang stems up to dry for winter bouquets. Pkt., 8c.

**FEVERFEW** (See *Matricaria* on this page).

**FOUR O'CLOCKS.** (Marvel of Peru.) This is another good old-fashioned flower, bearing hundreds of flowers during the season, of white, yellow, crimson and violet. Some varieties combine two or more of these colors in spots, flakes and splashes in such a manner as to give the flowers a most bizarre effect. Mixed. Pkt., 8c.

**GAILLARDIA.** (Blanket Flower.) *Picta Lorenziana*. The heads of starshaped tufted flowers are greatly admired for their rich blending of red, yellow and orange. 1½ feet. Pkt., 8c.

**GERANIUM.** Favorite house plant. Seed started early will bloom the first year. Mixed colors. Pkt., 8c.

**GLOBE AMARANTH.** (*Gomphrena*). Sometimes called Bachelor's Button. A very pretty everlasting flower with blossoms resembling clover. 2 feet. Red, white and mixed. Pkt., 8c.

**GODETIA.** Beautiful garden plants, having delicately shaded, large, satiny texture, trumpet-shaped blossoms. Easily cultivated in any good garden soil. 1½ feet. Pkt., 8c.

**GOLDEN FEATHER.** See *Pyrethrum*. Page 41.

**GYPSOPHILA** (*Paniculata*). 2 feet. White flowers on branching stems, producing a veil-like mist over the plant. Pkt., 8c.

**Elegans Rosea.** Soft pink in color. Pkt., 8c.

**HELIANTHUS** (Sunflower). Remarkable for the stately growth, size and brilliancy of their flowers, making a very good effect among shrubbery and for screens. *Californicus* Fl. Fl. 5 ft. Double dark yellow. Pkt., 8c. *Russian Mammoth*. Single, or gigantic dimensions. For larger amounts see Bird seed. Pkt., 8c.

**HELIOTROPE.** In shades of purple, fine for bouquets; the sweet vanilla odor is liked by all. Pkt., 8c.

**ICE PLANT.** (*Mesembryanthemum*).

**LANTANA.** Shrubby plants with *Verbena*-like flowers, in shades of white, red and yellow. Pkt., 8c.



*Dimorphotheca Aurantiaca*

**HOLLYHOCK.** 6 to 8 ft. August-September. One of the most majestic of hardy plants, and a clump or line in any garden gives an effect not obtainable with any other plant. Seed sown any time before mid-summer will produce plants that will bloom the following year.

**Double Varieties.** White, Crimson, Dr. Faust (Black), Salmon, Deep Rose, Blood Red, Yellow, White with Pink Center. Seed pkt., 8c; plants, 15c each.

**Double Mixed.** (Charles Superb.) Seed pkt., 8c.

**Single Varieties Mixed.** Seed pkt., 8c; plants, 15c each.

**Allegheny Mixed.** Seed pkt., 8c; plants, 20c each.

**IMPATINS SULTANI.** Rosy carmine flowers 1 inch in diameter, produced freely throughout the season. Although a house plant, it does finely out of doors. 1½ ft. Pkt., 8c.

**KOCHIA.** (Burning Bush or Summer Cypress.) The plants grow with many slender branches resembling a small, closely sheared evergreen with light green leaves until fall, when the whole plant turns crimson. Seed germinates readily. Sow May 1, and thin to 2 feet apart. 2½ feet high. Pkt., 8c.

**LARKSPUR.** (See *Delphinium*.) Page 38.

**LINARIA** (*Kenilworth Ivy*.) Flowers lavender and purple. A charming, small hardy perennial trailing plant, suitable for baskets, vases, pots and rock work. Pkt., 8c.

**LOBELIA.** Annual plants of dwarf, compact growth, four to six inches in height covered with numerous small star-like flowers. Very pretty when grown as and edging for flower-beds, also for hanging-baskets and vases, and as house plants in pots in the winter.

**Crystal Palace (Compacta).** 6 in. Depest blue, dark foliage. Pkt., 8c.

**Trailing Lobelia.** A dwarf plant of arailing habit; splendid for porch boxes, hanging baskets and vases. Deep blue flowers and dark foliage. Pkt., 8c.

**MARIGOLD.** The Marigolds are old favorites, free-flowering annuals of easy culture. They light the garden with a glitter of yellow far into the frosts of autumn.

**African.** Immense flowers, double, all shades of yellow. Pkt., 8c.

**French.** Dwarf grower; double flowers, rich golden yellow marked with velvety brown. Pkt., 8c.

**MATRICARI** (Feverfew). *Alba Plennissima*. 3 ft. Neat, small, double white flowers, well adapted for bedding and cutting. They are perennials in mild climates, but in our latitude are treated best as biennials or annuals. Pkt., 8c.

**MESEMBRYANTHEMUM.** (Ice Plant.) Suitable for rock work, hanging baskets, etc. Foliage thick, frosted, wax-like white flowers. Pkt., 8c.

**MIGNONETTE.** A universal favorite on account of its sweet and delicate fragrance. The massive spikes are closely set with large, highly colored and very fragrant florets. Pkt., 8c.

**MIMOSA.** (Sensitive Plant.) A curious and pretty plant; with pinkish white flowers; the leaves close and droop at the slightest touch at night. Pkt., 8c.



Marigold

On page 3, you will find a list of books on rural topics. We list these at 50c each, Postpaid.

**NASTURTIUM**

**Dwarf, or Tom Thumb.** A bed of Dwarf Nasturtiums in the yard is very brilliant and attractive, blooming all the season. One foot high.

**Beauty.** Scarlet splashed canary. Pkt., 8c.

**Chameleon.** Mottled crimson, bronze and yellow. Pkt., 8c.

**OUR SPECIAL DWARF**

Will give a larger variety of colors in even proportion than any other Nasturtium mixture, for it is put up by ourselves from named sorts, and also contains a large share of the Liliput Nasturtium and of the Dwarf Chameleon which have the richest and most varied combination of colors ever produced, showing odd colors hitherto unknown. Pkt., 8c; oz., 20c; ¼ lb., 50c; lb., \$1.75; postpaid.

**TALL NASTURTIIUMS** (see page 42.)

**NICOTIANA AFFINIS** (Tuberose-flowered Tobacco).

**Crystal Palace Gem.** Sulphur with maroon spots. Pkt., 8c.

**Golden King.** Deep yellow flowers. Pkt., 8c.

**Golden Queen.** Leaves golden-green, flowers orange yellow. Pkt., 8c.

**King of Tom Thumbs.** Deep scarlet. Pkt., 8c.

**Scarlet.** Pkt., 8c.

**NASTURTIUM MIXTURE**

Deliciously fragrant, large white star-shaped flowers; open at evenings and early morning; easily grown, blooms freely in the house. 2 to 3 ft. Pkt., 8c.

**Sanderae.** Sweet scented, brilliant red flowers on sturdy, bushy plants 2 feet high; grows readily from seed. Pkt., 8c.

**NIGELIA.** (Love in a Mist or Devil in a Bush.) Miss Jakyll. The plants are vigorous and give an abundance of double oddly shaped, fluffy flowers of the clearest blue, contrasting most charmingly with the fine fern-like foliage. Pkt., 8c.

**PANSIES**

One of the most interesting classes of flowers grown. A bed of pansies in bloom always has something new for you in variety of color and marking, every time you visit it, although they are in bloom continuously from early spring until late in fall.

The seed may be sown in the hot bed or open ground. Keep the soil moist. They prefer a shady place. Do not let the plants seed if you wish to keep them in bloom. If sown in the fall, pansies will bloom very early in the spring.

**Started Plants.** Mixed colors in bud and bloom. Per doz., 75c; postpaid.

**Masterpiece.** (Giant Curled.) The fluted petals make the enormous flowers appear double. The colors and combinations are odd and striking. Pkt., 20c.

**Mammoth Butterfly.** The flowers are very large, of good form and substance and produce freely. In colorings they are varied, seldom two alike in a hundred plants. They are mottled and spotted. Pkt., 15c.

**Giant Adonis.** Light blue. Pkt., 15c.

**Giant Atropurpurea.** Dark purple. Pkt., 15c.

**Giant Bronze.** Shade of bronze. Pkt., 15c.

**Giant Cardinal.** Brilliant red; Pkt., 15c.

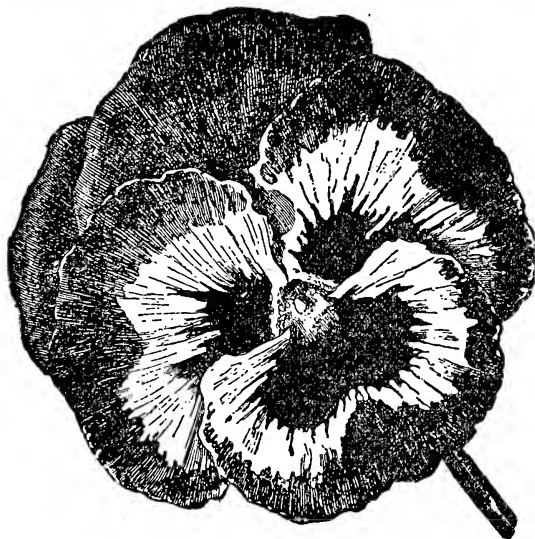
**Giant Goldelse.** Yellow. Pkt., 15c.

**Giant King of Blacks.** Beautiful black. Pkt., 15c.

**Giant Emperor William.** Brilliant ultramarine blue with a purple violet eye. Pkt., 15c.

**Fancy Striped.** A beautiful variety from Belgium, with good sized flowers, striped and mottled in various tints on contrasting ground colors. Pkt., 15c.

**Special Giant Mixture.** An excellent combination of fancy strains, selected with a view to being as near perfection as possible. Pkt., 15c.



Pansy

**Giant Snow Queen.** Flowers of a delicate, pure satiny white, handsome and attractive. It shows finely in beds or for cut flower work, and beautifully for cemetery use. Pkt., 15c.

**Bugnot.** Shades of red and bronze. Brightest cardinal and reddish brown. Pkt., 15c.

**Odier.** Flowers of immense size, and are of the popular Odier type, being all three or five spotted on background of very rich colors. The flowers are of good substance and fine form, of most compact growth. Pkt., 8c.

**Finest Mixed.** A mixture of the best sorts and colors. Pkt., 15c.

**Superb Mixture.** A very good quality. Pkt., 8c.

**PETUNIA**

Petunias are very popular for their rich coloring, continuation of bloom, pleasant fragrance, and easy culture. Can be sown in the open border, in full sun or partial shade. Transplant easily. 1½ feet high.

**General Dodds.** Beautiful; velvety, dark red. Pkt., 8c.

**Howards Star.** Rich, velvety, maroon with a white blotch on each petal. Pkt. 8c.

**Snowball.** Pure snowy white. Pkt., 8c.

**Giant Ruffled and Fringed Single.** The flowers are exquisitely ruffled or frilled, of immense size, and of great variety of colors. Pkt., 15c.

**Double Mixed.** Sure to produce a good percentage of double flowering plants. Pkt., 20c.

**Single Mixed.** Extra choice. Pkt., 8c.

**PORTULACA** (Rose Moss). Forms masses of delicate green foliage covered with bright colored flowers somewhat resembling small roses. They thrive best in a rather rich, sandy soil and a sunny situation, will stand any amount of dry weather.

**Single Mixed.** All colors. Pkt., 8c.

**Double Mixed.** Not all the plants will come double, but the single ones can be pulled out. Pkt., 15c.

**PRIMULA** (Chinese Primrose). This is one of the most charming winter flowering house plants. Leaves are rich green and prettily cut, the starr shaped flowers stand well above the foliage in umbels and have a delicate odor peculiarly their own. Pkt. 15c.

**PHLOX** (Drummondii). Sown in the open ground during April and May, they produce a perfect blaze of brilliant colored flowers until cut down by frost. The richness of color and the profusion with which the flowers are produced make them indispensable for massing in beds and borders. Thrives in almost any situation. For masses of separate colors or for bouquets they are unsurpassed. One foot high.

**Scarlet.** Very showy. Pkt., 8c.

**Alba.** Pure white. Pkt., 8c.

**Rosy Chamois.** Beautiful shade of rose. Pkt. 8c.

**Extra Choice Mixed.** Best large flowered. Pkt., 8c.

**Starred and Fringed.** Very dwarf flowers fringed and distinctly edged with white. Mixed. Pkt., 8c.



Double Portulaca

## POPPIES

Poppies are noted for their satiny flowers of silk-like texture, in many brilliant color combinations. The foliage is delicate and the blossoms are airily poised on slender stems. Sow the seed where the plants are to grow, as they do not bear transplanting.



SHIRLEY POPPIES

**Tulip.** Cup-shaped, brightest scarlet with black spots at base of each petal. Single. Pkt., 8c.

**Peony-Flowered Mixed.** Splendid large double flowers of all colors. Pkt., 8c.

**Shirley.** Pink, carmine and brilliant crimson; many edged with white single and half double, splendid. Pkt., 8c.

**White Swan.** Immense double fringed flowers of purest white. Pkt., 8c.

**Carnation Flowered.** Brilliant, finely fringed double flowers of various colors. Pkt., 8c.

**PYRETHRUM (Golden Feather).** Parthenifolium Aureum. 6 in. One of the best plants for edging, grown for its beautiful yellow foliage. More successfully treated as an annual. Pkt., 8c.

**RICINUS (Caster Bean).** Zanzibariensis Mixed. 10 to 12 ft. The ornamental leaves, beautifully lobed, are 2½ to 4 ft. across. Each plant makes a perfect pyramid of foliage thickly set from top to bottom. The difference between the varieties is in the coloring of the grand bamboo-like stems and the long slender leaf stalks. Pkt., 8c.

**SALPIGLOSSIS (Velvet Flower).** Undoubtedly one of the most attractive annuals and should be in every garden. The blossoms are tube shaped much like a Petunia but rivalling the latter in the beautiful colors displayed. Each flower is veined with a glint of gold, and it is the only flower to our knowledge possessing this odd characteristic. Grows easily from seed. Plant in warm, rich soil. 1½ feet tall. Mixed Pkt., 8c.

**SALVIA (Flowering Sage).** Among the most brilliantly colored of garden flowers and extremely useful for bedding; also valuable for pot culture. Blooms are borne in long spikes of fiery red and continue to bloom until severe frosts. Start in house and transplant into light soil. Tender perennials 2 to 3 feet tall. Pkt., 8c.

Started Plants, 50c dozen postpaid.

**SENSITIVE PLANT.** (See Mimosa, page 39.)

**SMILAX.** One of the most desirable window vines, on account of its charming, glossy green, elegant, and graceful foliage. Sow seed in February and keep in moist place. Pkt., 8c.

**SNAPDRAGON.** (See Antirrhinum, page 37.)

**SCHIZANTHUS (Butterfly Flower).** "The Poor Man's Orchid." near, pyramidal bushes covered with a multitude of small butterfly-like flowers of the most brilliant and striking color designs. 1 ft. Pkt., 8c.

**SCABIOSA (Mourning Bride).** Commonly known as the Pincushion Plant owing to the queer effect of the center of the flower. The outer petals making a ruffle around the cushion filled with pins, carry out the idea. The flower stems are long and the blossoms keep well in water. The soft shades predominate. 2½ ft.

**Tall German Double.** Mixed, all colors. Pkt., 8c.

**Black Prince.** Very double, rich dark maroon. Pkt., 8c.

**Snowball.** Elegant, white flowers, sure to be liked for cases and bouquets. Pkt., 8c.

**STOCK Giant Perfection.** Very desirable because of its brilliancy of color, profusion and duration of bloom. Fragrant with large double rosette-like flowers. Mixed. Pkt., 8c.

**Princess Alice.** Snow white. Of branching habit. Very profuse bloomer especially if kept cut. Pkt., 8c.

**SUNFLOWER.** (See Helianthus, page 39.)

**WALLFLOWER.** Single annual. Very fragrant; purple orange and bronze. A favorite English flower. Seed sown the first of May will bloom from July until severe frosts. It is very satisfactory as a pot plant for winter, if kept in a cool room. Pkt., 8c.

**VERBENA.** Free-flowering hardy annuals of low-spreading growth; flowers of the most brilliant colors. Sow them early and they will bloom profusely from June until winter.

**Defiance.** Best scarlet. Pkt., 8c.

**Alba.** Delicate white. Pkt., 8c.

**Mayflower.** Delicate pink, very fragrant. Pkt., 8c.

**Hybrida Blue.** Blue shades. Pkt., 8c.

**Purple.** Purple shades. Pkt., 8c.

**Choice Mixed.** All colors. Pkt., 8c.

Started Plants, Mixed colors. Per dozen, 50c; postpaid.

**VINCA (Periwinkle).** Splendid house and bedding plant, with glossy leaves and circular flower; mixed. Pkt., 8c.

**ZINNIA.** Flowers all summer, making the most brilliant display possible. Plants are of strong branching growth with abundant dark-green foliage, each branch terminating in a bold showy flower. Excellent for border or summer hedge. Seeds grow easily and young plants transplant safely.

**Giant Flowering.** Plants of vigorous growth, about 3 feet high, bearing profusely their perfectly formed double flowers. Mixed. Pkt., 8c.

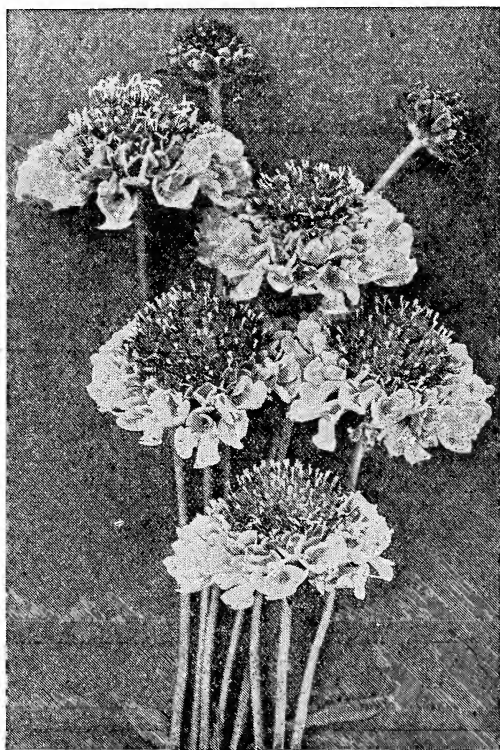
**Dwarf Fireball.** Glowing, brilliant scarlet. Pkt., 8c.

**Zebra.** Flowers striped with red and yellow. Pkt., 8c.

**White Gem.** Small, double white flowers. Pkt., 8c.

### FLOWER SEED COLLECTION

See Page 23



Scabiosa

HOW TO GET 40c WORTH OF SEED FOR NOTHING, SEE PAGE 23

# Annual Climbers

**ARSTOLOCHIA.** (Dutchman's Pipe.) An ornamental climber with brownish flowers resembling a miniature pipe. A perfectly hardy perennial standing any climate where the oak lives. Pkt., 8c.

**BALLOON VINE.** (Love in a Puff.) A rapid grower with fine white flowers followed by inflated seed pods resembling small balloons. Height 10 feet. Pkt., 8c.

**BALSAM APPLE AND PEAR.** Very rapid and dense climbers, with golden-yellow fruit which opens when ripe, showing the seed and blood-red inside. Mixed. Pkt., 8c.

**CANARY BIRD FLOWER.** A rapid growing, delicate vine with clean, handsome foliage and an abundance of canary-yellow blossoms, somewhat resembling a bird with half extended wings. An excellent climber for shady places. Pkt., 8c.

**CYPRESS VINE.** A beautiful climber with a profusion of scarlet or white star-shaped blossoms and fern-like foliage adapted to ornamental work. Pkt., 8c.

**DOLICHOS.** (Hyacinth Bean.) Splendid climber, producing abundant clusters of pea-like purple and white flowers, followed by ornamental seed pods. 10 to 20 ft. Pkt., 8c.

**MOON FLOWER.** (Ipomea Notiflora.) One of the most vigorous climbers. Will grow 30 feet; its large waxy white flowers open evening and cloudy days. The hard outer coat of the seed should be cut through with a knife and planted in warm, rich ground. Keep the soil moist. Pkt., 8c.

**CARDINAL CLIMBER.** We consider this a most beautiful brilliant and distinct annual climber and rapid grower attaining a height of 20 feet or more with beautiful deeply cut leaves not unlike some of the Japanese Maples and is literally covered with a haze of circular, fiery, cardinal red flowers from mid July to frost. The flowers are about half an inch in diameter and are borne in clusters of from 5 to 7 blooms each; should be planted in warm, sunny situation on good soil. Pkt., 8c.

**CLIMBING NASTURTIUM.** Ideal ramblers that readily climb fences or wire netting. These blossoms are larger and the stems longer than the Dwarf Nasturtiums. Mixed. Per oz., 10c; pkt., 8c.

**King Theodore.** Rich, deep crimson; dark leaves. Pkt., 8c.

**Edward Otto.** Brownish lilac. Pkt., 8c.

**Jupiter.** Rich golden yellow. Pkt., 8c.

**Mme. Gunther's Hybrids.** Striped or blotched with shades of red, yellow and orange. Pkt., 8c.

**Pearl.** (Moonlight.) Whitish. Pkt., 8c.

**Scarlet.** Bright glowing red. Pkt., 8c.

**Vesuvius.** Bright salmon red. Pkt., 8c.

**DWARF NASTURTIUM.** See page 40.

**COBAEA.** A beautiful rapid growing climber with large purplish, bell-shaped flowers; plant the seed edgewise, and cover lightly. Pkt., 8c.



Cobea

**CONVOVULUS or MORNING GLORY.** The well-known kind. Mixed colors. Pkt., 8c.

**Japanese Giant.** The mammoth flowers of this vine run from 4 to 6 inches across and are marked with most beautiful colors and shadings. The vines are strong and robust, growing from 30 to 50 feet high during the season. Pkt., 8c.

**GOURDS.** Desirable for many places where an immense amount of vine is wanted quickly, producing odd and interesting fruit. Most sorts grow 20 to 30 feet in a season.

**Dish Rag.** Many ladies prefer a dish cloth made of sponge-like lining of this gourd to anything else, as it always sweet and clean as long as any part of it is left. Pkt., 8c.

**Sugar Trough.** This gourd grows large holding from 3 to 5 gallons. Very hard shell. Pkt., 8c.

**Nest Egg.** Resembling the eggs of hens are uninjured by the cold or wet, therefore make the best nest eggs. Pgt., 8c.

**Pear Shaped.** Striped yellow and green. Pkt., 8c.

**Mixed Gourds.** All of the above. Pkt., 8c.

**HUMULUS (Japanese Hop.)** A rapid growing climber of easy culture, leaves variegated. Sows itself after first year. Pkt., 8c.

**PASSION FLOWER.** One of the best summer vines for general growing. The beautiful blue flowers somewhat resemble a water lily in shape. Pkt., 10c.

**WILD CUCUMBER.** A very rapid climber, often growing 30 feet in one season. It is covered with clusters of white sweet-scented flowers, followed by ornamental prickly seed pods. Ounce, 15c; pkt., 8c.

## SPECIAL NO. 16

For those who desire vines to cover long stretches of fence, etc. we have a mixture of 12 or more varieties of annual climbers. Pkt., 8c; 20c per half oz.; 35c per ounce.

SEE OUR ROSE COLLECTIONS, PAGES 54-55

Cumberland County, Pa., 12-11-'18.

Gentlemen:

Enclosed you will find my order for garden seeds. The seeds I bought of you last year did fine. The Snapdragons were the most beautiful assorted colors I ever saw.

Respectfully,

MISS ANNA M. ZIMMERMAN.



## Sweet Peas

Sweet Peas are among the most beautiful of all our hardy annuals. Select a sunny open place, several feet from any building or close fence, and as far as possible from large trees. Sow as early in the spring as the ground can be worked. Make a trench six or eight inches deep, but cover the seed only about an inch at first. As they come up, rake the dirt around the little plants, so that by the time they have reached the top of the ground, the trench will be almost full. Furnish support early. Give them plenty of water, and keep the blossoms picked closely. If they produce seed pods, they will stop blooming.

### LARGE FLOWERING AND UNWIN

#### TYPES

- Aurora.** A beautiful orange rose. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- BLACK KNIGHT.** Deep maroon, veined black; large and open. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- BLANCHE BURPEE.** Large pure white. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- BOLTON'S PINK.** The extra large expanded flowers are of a soft salmon-orange pink, very showy. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- COUNTLESS RADNOR.** A new lavender, very fine. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 45c.
- DOROTHY ECKFORD.** Pure white flower, beautifully shell-shaped; extra large, three on a stem. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- DUKE OF WESTMINSTER.** Very rich purple tinted with violet. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- EMILY HENDERSON.** Very large, beautiful white. Blooms early. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- EVELYN BYATT.** Standard rich orange salmon, wings a somewhat deeper shade. Very striking. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 45c.
- EXTRA EARLY BLANCHE FERRY.** Standard rose-pink wings, creamy white. Very early. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c.
- FLORA NORTON.** A rich lavender, entirely free from any pinkish tinge—almost a bright blue. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 45c.
- FRANK DOLBY.** Pale blue, very large and fine. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 45c.
- GLADYS UNWIN.** A pale rose pink, with large bold flowers on long stems. Very early. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- HORACE WRIGHT.** Large purple flowers on long stems. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- JANET SCOTT.** A grand, deep, rich pink. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- LADY GRISEL HAMILTON.** A very light, dainty lavender. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- LOVELY.** A soft shell pink. Very good. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- MRS. DUGDALE.** Light carmine rose with faint markings of primrose. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- NORA UNWIN.** Nicely waved or fluted; usually has three flowers on a stem. One of the best white-sweet peas yet introduced. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 50c.
- PRIMA DONA.** Exquisite rose pink; large and profuse. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- MISS WILMOTT.** One of the richest orange-pink sweet peas. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- MRS. GEO. HIGGINSON, JR.** Azure blue. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c.
- NAVY BLUE.** Dark indigo blue. Large and well formed. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- PRINCE OF WALES.** Rosey crimson. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- PHYLLIS UNWIN.** Very large size. Rosy carmine. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- QUEEN ALEXANDER.** Scarlet. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- SALOPIAN.** Rich red scarlet; large and fine. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- SHASTA.** Vines vigorous. Standard and wings both waved. Creamy white when first open changing to ivory white. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- SYBIL ECKFORD.** Wings delicate lemon; standard blush pink or creamy buff. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.
- SUNBEAM.** Delicate cream. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.



- COUNTLESS SPENCER.** Enormous flowers delicate pink shading deeper at the edges. Pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 75c.
- HELEN LEWIS SPENCER.** Orange-rose wings with crimson-orange standard. Pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 75c.
- JESSIE CULBERTSON SPENCER.** Dark rose striped on white. Pkt., 15c; oz., 75c;  $\frac{1}{2}$  lb., \$2.25.
- KING EDWARD VII.** Grand large flowers of a rich crimson scarlet. Pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 75c.
- MRS. ROUTZAHN.** Apricot pink and straw color. Pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 75c.
- OTHELLO.** Chocolate-red, self-colored. Pkt., 10c; oz., 20c;  $\frac{1}{2}$  lb., 75c.
- PRIMROSE SPENCER.** Pure primrose. Pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 75c.
- ROBERT SYDENHAM.** Orange. Pkt., 25c; oz., \$1.25.
- VERMILLION.** Brilliant, bright scarlet. Pkt., 15c; oz., 50c;  $\frac{1}{2}$  lb., \$1.75.
- WEDGEWOOD.** Large silvery blue. Pkt., 15c; oz., 50c;  $\frac{1}{2}$  lb., \$1.75.

#### SWEET PEAS IN MIXTURES

- CHOICE MIXTURE OF SPENCER VARIETIES.** Pkt., 8c; oz., 20c;  $\frac{1}{2}$  lb., 50c.
- LIGHT SHADES.** Light to deep pink. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 40c.
- DARK SHADES.** Brightest rose to dark scarlet. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 45c.
- SPECIAL MIXED.** A well proportioned mixture of the above named varieties. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 45c.
- CHOICE MIXED.** A good mixture of many old and new varieties. Pkt., 8c; oz., 15c;  $\frac{1}{2}$  lb., 35c.

#### SPENCER OR BUTTERFLY VARIETIES

- APPLE BLOSSOM.** Heavily shaded and edged with deep pink, rose and white. Pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 75c.
- BLANCHE FERRY.** Carmine rose, pinkish white wings. Pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 75c.
- BURPEE'S WHITE SPENCER.** Extra long stems bearing three or four pure white blossoms. Standard fluted. Pkt., 10c; oz., 25c;  $\frac{1}{2}$  lb., 75c.

Use Inoculating Bacteria on Sweet Peas Page 30

ALL 8c PKTS. ARE 2 FOR 15c

Five Packages of Flower or Garden Seed Free! See Page 23

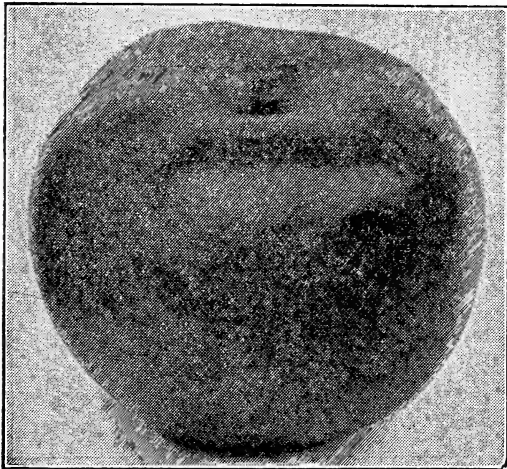
## Nursery Department

Our nursery stock is all inspected by the State Entomologist and must be free from all insects and diseases before it can be sold. A certificate to this effect accompanies each shipment. We guarantee our trees to give you satisfaction in so far that if they are not satisfactory upon arrival you can return them immediately at our expense.

### The Apple

The Apple is the first fruit, both in importance and general culture. No fruit is more in demand, more universally liked. The earlier varieties ripen about the last of June, and the later sorts can be kept until that season. It is a fruit in perfection the entire year. Make a judicious selection of varieties, and a constant succession can be had the whole year. We catalog only such varieties as are productive and suitable for this climate.

**FOR PRICES OF APPLE TREES LISTED ON THIS PAGE, SEE PAGE 45**



**Weathy**

dark crimson. Quality of best for dessert. Keeps good. December to April.

**WEALTHY.** Originated by the late Peter M. Gidon. A vigorous spreading grower, very productive and hardy. Fruit above medium to large, oblate, very regular, smooth, light, yellow, almost wholly covered with bright red splashes and stripes. A beautiful fruit. Flesh white, often stained with red, tender, very juicy, slightly sub-acid, very good for table use and splendid and profitable market sort. Season October to February.

**WINESAP.** A valuable, well-known variety. One of the leading export apples, fruit medium, roundish, skin moderately thick and tough. Dark red with yellow; flesh very rich and firm. Season December to May.

**NORTHWESTERN GREENING.** Tree a splendid vigorous grower, quite hardy. Fruit large to very large, green becoming yellow-green when ripe. Flesh yellow, fine grained and firm. Flavor a good sub-acid,

**GRIME'S GOLDEN.** Tree vigorous. Fruit above medium, regular, surface rich golden yellow; flesh yellow, flavor rich and spicy, slightly acid. Specially good for early winter. Season November to January.

**MAIDEN BLUSH.** Good size, fine flavor, beautifully blushed, good bearer, a fine apple for home and market. September.

**YELLOW TRANSPARENT.** One of the earliest apples. Fruit is medium large, smooth, transparent. Skin is clear white, turning pale yellow when ripe. Flesh white, fine grained, aromatic, and of splendid quality. Tree is vigorous, good bearer. Two-year-old trees frequently produce fruit. Succeeds in all Eastern states and should be planted in all cold climates. Succeeds well on thin soils. Ripens in early August. Its hardiness, vigor and early bearing commend it.

**JONATHAN.** A delicious dessert apple. Fruit good size, surface rich golden yellow; flesh yellow; flavor rich and spicy, slightly acid. Specially good for early winter. Season November to January.

**BEN DAVIS.** Old variety, large, red stripes; good keeper; quality medium.

**OLD ENBURG (Duchess).** Fruit large striped, beautiful, quite juicy, mild sub-acid, or almost tart; tree a good bearer, with upright head, requiring little or no pruning; very hardy. Indispensable north and west, good south, and a favorite east. One of the best for culinary use, being particularly well adapted for cooking and drying. July and August.

**DELICIOUS.** Originated at Peru, Madison County, Iowa. Fruit medium to large, oblong and of the sheep-nose type. Color light green, shaded, splashed and mottled with light and

very smooth and attractive. Very prolific and a regular bearer.

**RED JUNE.** Size medium oblong, very red. Flesh white, tender, juicy, sweet, acid with a fine flavor. Quite early and keeps well for a summer apple. Tree very hardy, bearing young and abundantly.

### Crab Apples

**FLORENCE.** A hardy tree, bearing young; fruit medium of carmine color; flesh yellowish; medium fine; a fine jelly crab.

**WHITNEY NO. 20 (Hybrid).** A beautiful, upright growing trees. A young and abundant annual bearer and very hardy. Fruit of large size, conical, yellow, striped with red, and covered with a whitish bloom. Flesh white crisp, sub-acid, almost sweet and very fine for eating; good for sweet pickles. Season August to September.

**MARTHA.** A vigorous grower and free from blight. Fruit large yellow with heavy blush of light red, flesh fine grained, firm; very juicy and fine for cooking.

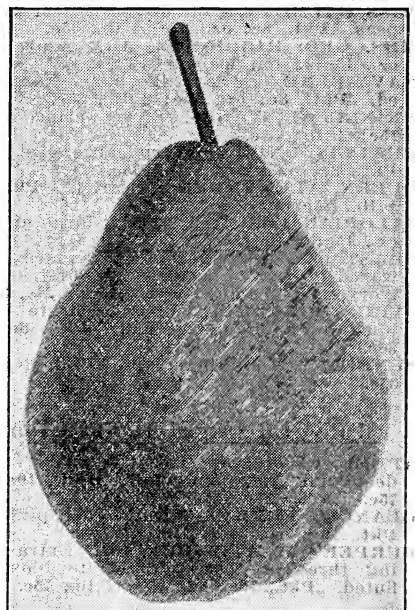
### Pears

**CLAPP'S FAVORITE.** A large, fine pear, resembling the Bartlett but without its musky flavor. Pale lemon yellow with brown dots, very juicy with a delicate flavor.

**BARTLETT.** Large size, with a beautiful blush next the sun buttery; very juicy, and bibbly flavored; tree a strong grower, bears early and abundantly; very popular. August, September.

**FLEMISH.** Large, red cheeked, beautiful, excellent quality, productive; one of the hardiest; very popular in the West.

**SECKEL.** Small, rich, yellowish brown. One of the best and highest flavored pears known. Very productive.



**Clapp's Favorite**

**FOR PRICES OF FRUIT ON THIS PAGE, SEE PAGE 45**

## Peaches

**ALEXANDER EARLY (Cling).** Medium size, greenish white nearly covered with rich red; flesh sweet and juicy. Very productive.

**J. H. HALE'S EARLY (Free).** Medium greenish white with red cheek; flesh white, melting, juicy. Abundant bearer.

**CHAMPION (Free).** Large, round, quite regular; yellowish white mottled with red on sunny side; flesh white with red at the pit; one of the best in quality.

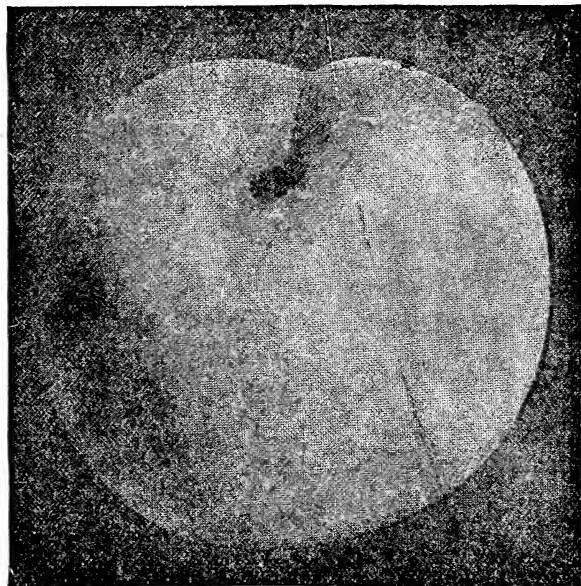
**CRAWFORD'S EARLY (Free).** Large, roundish, bright yellow with red cheek; flesh yellow juicy and sweet; quality good. August and September

**ELBERTA (Free).** The great market peach of the Southwest; perfectly hardy in the North and is believed by many growers to be the best all around peach; color lemon-yellow with blush on sunny side; flesh pale yellow, tender and juicy; tree vigorous; a good shipping peach.

## Apricots

**ALEXIS (Russian).** Medium to large, light orange, yellow flecked with red; flesh tender, juicy, sweet and good quality; hardy; very productive. July.

**BUDD (Russian).** Medium to large light orange with blush on sunny side; flesh sweet, juicy with flavor of the peach; hardy and productive. August.



Hale's Early

## Cherries

**EARLY RICHMOND.** (English Pie Cherry). A well-known old standard variety. Tree is hardy, healthy, a free grower, very productive and regular in bearing. Fruit clear bright red, of medium size, acid, rich and one of the best for canning and for pies. The most popular of the true Kentish Cherries. Ripens in June.

**ENGLISH MORELLO.** Medium to large roundish, dark red, nearly black when ripe, flesh purplish red. Meaty, juicy, productive.

**MONTMORENCY.** A beautiful large, red cherry larger and finer than Early Richmond, but fully 10 days later. Being extraordinary prolific and very hardy, it can be highly recommended. Valuable for canning and preserving. One of the best and most popular varieties.

**COMPASS CHERRY.** Absolutely hardy everywhere. Nearly an inch in diameter, bright red, sweet and juicy and of very fine flavor. The original tree bore fruit the third year from the seed and has borne a full crop every year since. The tree is a regular and heavy bearer and produces fruit the next year after setting out. For exposed situations and for the North and West it is the "Cherry." Requires no protection whatever; in every particular is hardy as an oak.

## Plums

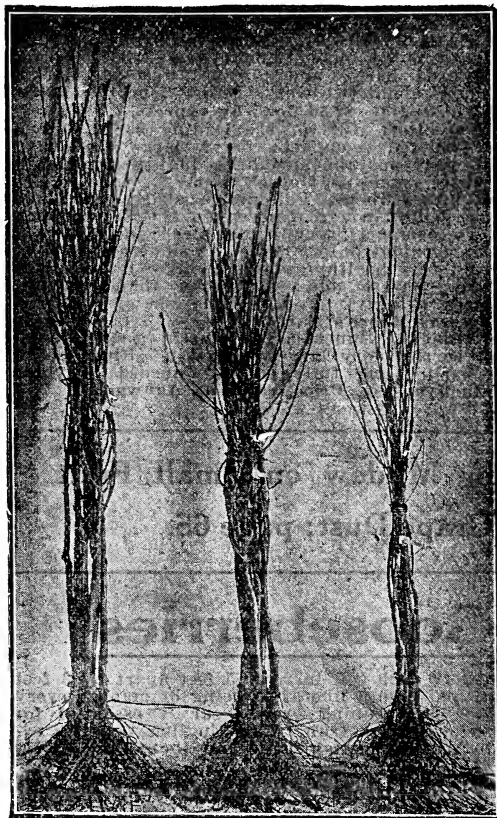
**HAWKEYE.** One of the largest and best plums grown in the northwest. Fruit large round oval; thick skin that bears handling; color dull red over yellow; flesh yellow and of prime quality. Tree hardy and vigorous, bears young and reported everywhere as prolific and regular. A profitable market plum, stands shipping well. Highly valued for fresh fruit and culinary purposes.

**SHROPSHIRE DAMSON.** One of the best for preserving; flesh amber colored; juicy and spicy; tree vigorous, hardy and an abundant bearer.

**REINE CLAUDE (Green Gage).** Small yellowish-green when mature; flesh pale green melting luscious and best quality; considered the standard of excellence; tree a moderate grower. Mid-August.

**LOMBARD.** Medium roundish-oval, violet-red, juicy and pleasant; adheres to stone; a valuable market sort, hardy and adapted to light soils; nearly always produces a crop.

**BURBANK.** Medium to large, orange-yellow, dotted and marbled with red; flesh meaty, yellow, sweet and good; valuable for canning and a good market plum; mid-June. Hardest and most prolific of the Japan varieties.



6-7 ft. 5-6 ft. 4-5 ft.

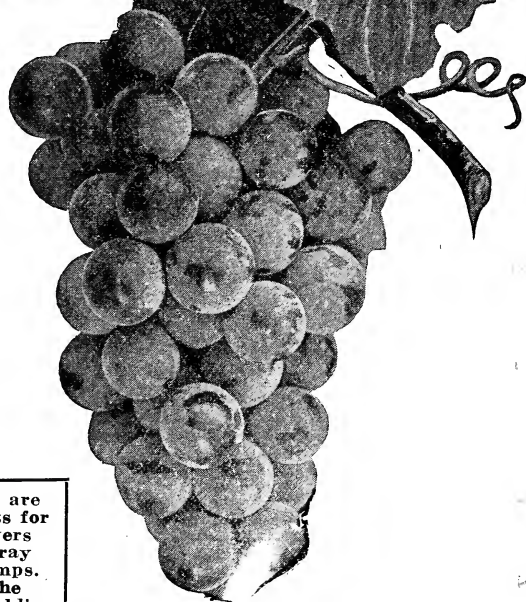
### OUR FRUIT TREE PRICES

By Express at Purchaser's Expense

|                    | Size    | Per 1  | Per 10 | Per 100 |
|--------------------|---------|--------|--------|---------|
| Apples             | 5-6 ft. | \$0.50 | \$4.50 | \$40.00 |
|                    | 4-5 ft. | .40    | 3.75   | 35.00   |
| Crab Apples        | 5-6 ft. | .60    | 5.50   | 50.00   |
|                    | 4-5 ft. | .50    | 4.50   | 40.00   |
| Apricots           | 5-6 ft. | .60    | 5.50   | 50.00   |
| Cherries, selected | 5-6 ft. | .70    | 6.50   | 60.00   |
| Compass Cherry     | 4-5 ft. | .60    | 5.75   | 55.00   |
| Peaches            | 5-6 ft. | .50    | 4.75   | 45.00   |
| Pears              | 5-6 ft. | .70    | 6.50   | 60.00   |
| Plums              | 5-6 ft. | .70    | 6.50   | 60.00   |

All Kinds of Pruning Shears  
Listed on Page 87

# SMALL FRUITS



We are  
agents for  
Myers  
Spray  
Pumps.  
The  
World's  
best.  
See  
Page  
63 to 65

## Blackberries

Plant in rich soil and a little shade, among trees, or on north side of trees or fence, if possible.

Of all the varieties tested, the Snyder has proven the hardest and Stone's Hardy second.

**STONE.** It is a vigorous grower; berry glossy black and of good flavor; a little later than Snyder. Price, 15c each; postpaid, \$1.00 per dozen by express.

**SNYDER.** Medium size, sweet and good, strong grower, productive, extremely hardy; fully proven its value. After all the experience we have had with blackberries we are thoroughly convinced that this is the berry for the West and Northwest. Should be universally planted. Price, 15c each; postpaid, \$1.00 per dozen, by express.

**BLOWER.** A splendid new sort. Large size, jet black, good shipper, best quality, unexcelled productiveness. 15c each; 6 for 80c; postpaid. By express, \$1.00 per dozen.

## Currants

Hardy, easily cultivated, stand neglect well, and liberally responds to cultivation and generous treatment; indispensable for jellies, etc. Set four feet apart in rich ground; cultivate well or mulch heavily; prune out old wood so that each remaining shoot will have room to grow. If the current worm appears dust with hellebore. All plants well rooted and strong.

**CHERRY.** Berries sometimes more than half an inch in diameter, bunches short, vigorous and productive when grown on good soils and well cultivated.

**FAY'S PROLIFIC.** The leading market variety; bunches and berries large and uniform in size, easily picked; exceedingly productive.

**VICTORIA.** Large, bright red; berries medium size, of excellent quality. Erect grower, very productive. Ripens late, a valuable sort.

**WHITE GRAPE.** Very large, yellowish white, sweet or very mild acid. Excellent quality and valuable for the table. Productive.

**WILDER.** One of the strongest and most productive. Bunch and berries very large, bright, attractive red color, even when dead ripe; hangs on bushes in fine condition or handling until very late. A valuable market sort.

**PRICES:** All currants 25c each; postpaid, \$.200 per dozen. By express,

## Grapes

There is scarcely a yard so small, either in country or city, that room for one to a dozen or more grape vines cannot be found. They do admirably trained up to the side of any building or along the garden fences, occupying but little room and furnishing an abundance of the healthiest of fruit. Make the soil mellow and plant the vines somewhat deeper than they stood in the nursery. Plant about 8 feet apart by the fence or building. For vinewards make rows 8 feet apart, 6 to 10 feet in rows.

**AGAWAN. (Red.)** Bunch large, compact, shouldered, berry large, dark red or nearly black; flesh tender, juicy, vinous and good quality; later than Concord. 25c each; \$3.00 per dozen; postpaid. By express, \$2.50 per dozen.

**CONCORD (Black).** Too well-known to need much description; is considered by many to be the best all around grape grown; is extremely hardy, vigorous and productive, bunches large, compact; berries large, juicy, buttery and sweet; and will succeed well almost anywhere. Price, 25c each; postpaid, \$.250 per dozen; by express.

**MOORE'S EARLY. (Black).** Bunch large, berry round with a heavy blue bloom, quality said to be better than Concord; hardy and prolific; a good market berry; ripens about two weeks before Concord. Price, 25c each; postpaid, \$.250 doz., by express.

**NIAGARA (White).** One of the leading sorts; bunch large, shouldered, compact; berry large, yellowish white, juicy, vinous and sprightly, quality good; skin tough. Price, same as Moore's Early.

**POCKLINGTON (Green).** Pale green usually with tinge of golden yellow, where exposed to the sun; bunch large, very compact, very large; flesh juicy, sweet, with considerable pulp. Vine a moderately good grower, but very healthy and very hardy, it buds notwithstanding severe cold even better than Concord. It produces a heavy crop of fine showy clusters. Price, same as Moore's Early.

**WORDEN (Black).** Bunch large, sometimes shouldered, compact; berries very large, skin thin. Ripens 5 to 10 days earlier and fully equals Concord in vigor and productiveness. Price, same as Agawan.

For Mildew on Small Fruit  
use Grape Dust; page 65.

## Gooseberries

Plant in good rich soil in rows 5 feet apart by 3 feet in the row, and give a liberal dressing of manure every season. Regular pruning every year is essential for the production of fine fruit. The English varieties especially do best in partial shade and should be heavily mulched.

**DOWNING.** An old and well-known variety. Fruit large and handsome, pale green, of fine quality. A strong, vigorous grower, seldom affected by mildew. One of the best. 25c each; postpaid. By express, \$.250 per dozen.

**HOUGHTON.** Fruit small to medium, pale red, of fine flavor. Plants of slender, spreading growth and enormously productive. 25c each; postpaid. By express, \$.225 per dozen.

There is no embargo on our Gooseberry or Currant Bushes. They are all guaranteed to be grown west of the Missouri River, hence, we are at liberty to ship East or West.

## RASPBERRIES

It is difficult to transplant one year plants. Two year plants transplant easily and are cheapest in the end. Plant on strong soil, manure freely, cultivate well, and mulch heavily. Moisture must be retained in order to grow raspberries successfully.

### RED RASPBERRIES

**LOUDON.** The hardiest and most productive of red varieties, very large and of the best quality.

**CARDINAL.** This wonderful berry surpasses all by its great growth, extreme hardiness, exceeding productiveness and the unusual richness of its pure flavored, large, purple berries.

### BLACK RASPBERRIES

**CUMBERLAND.** Largest black raspberry known. Perfectly hardy and vigorous grower. For productiveness nothing exceeds it. In quality rich, sweet and luscious, a mid-season variety.

**KANSAS.** Strong, vigorous, standing extremes of drought and cold, and bearing immense crops. Early berries, jet black and of best quality.

Prices on all Raspberries except Everbearing:

1 yr. old plants \$1.00 per doz.; \$6.00 per 100.

2 yr. old plants \$1.50 per doz.; \$8.00 per 100.

### EVERBEARING RED RASPBERRIES

**ST. REGIS.** Plants set early in April gave berries June 20th of the same year, and the canes continued to produce ripe berries freely, until the middle of October. In addition to the bright crimson color and large size of the fruit, it is so firm and rich in sugar that it will stand shipping 200 miles, can readily be kept in perfect condition for several days after being gathered. It succeeds upon all soils whether light and sandy or cold and heavy clay, and the canes are absolutely hardy. Price, \$1.50 per doz.; \$8.00 per 100.

## STRAWBERRIES

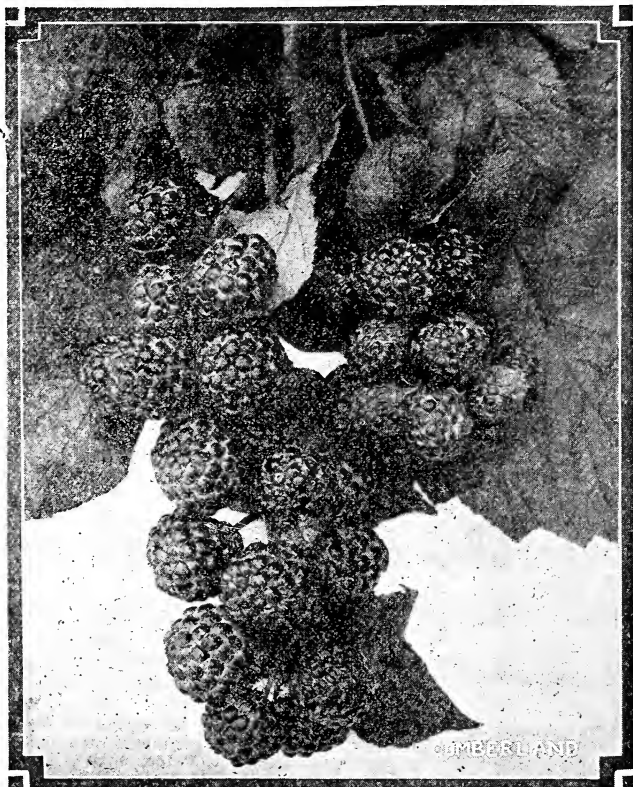
The Strawberry has been styled the queen of fruits. It is the first to ripen and the quickest to come into bearing. Can be successfully grown on a great variety of soils; responds readily to kindly location and liberal feeding and culture. Every home builder who fails to have an abundance of this delicious health-giving fruit, misses a chance of great things for little money. The strawberry prefers a cool, moist soil. Not subject to severe drought; good upland soil is the best, well enriched. Spring planting is best.

Of the hundreds of varieties that have been introduced we offer only a small number of the best, all of which will thrive under any ordinary care.

**SENATOR DUNLAP.** (B). Plant resembles Warfield rampant runner, should be restricted in its production of plants; fully equal to Crescent and Warfield in its ability to succeed under all circumstances. Fruit good size, regular form, beautiful bright red.

**BEDERWOOD.** (B). This is generally considered to be

PRICES OF ALL ABOVE STRAWBERRIES, 40c DOZEN, POSTPAID; \$1.50 PER 100 BY EXPRESS



one of the very best early varieties for home use or market. It is a splendid grower, making a large number of strong runners. It has a perfect blossom and is exceptionally productive. The fruit is of good size, light red, medium firmness and good quality. One of the best to plant with Warfield.

**WARFIELD.** (P.) This variety stands next to the Senator Dunlap, being quite similar in shape and size. However, Warfield is a sour berry and a little deeper in color, thus making it one of the very best for canning. It also holds its color in the cans, which is a very strong point in its favor.

**BRANDYWINE.** (B). This variety has proven so satisfactory with all who have grown it that it is consequently in large demand. It is comparatively new and of great value by reason of its productiveness, large size, beauty and good quality, which renders it especially desirable for the home garden. The berries are a glossy crimson, very handsome, firm, solid and excellent in quality with a fine flavor.

### EVERBEARING STRAWBERRIES

Strawberries that yield fruit continually from May until frost have been known for a long time. The new cultivated sorts were originated by cross-pollinating these wild everbearing Alpine sorts with our standard varieties and combining the everbearing habits of the one parent and the size and quality of the other.

We have been testing the different varieties of everbearers for several years on our own grounds and offer to our patrons the best.

**PROGRESSIVE.** This berry is one of the best for home use. It is a good-sized, smooth, red berry. Plants are strong, vigorous and very prolific. Fruits all season with a heavy late season yield. Price, 75c per doz.; postpaid, \$3.50 per 100; by express.



Progressive

# Ornamental Shade Trees

We offer one of the finest assortments of shade trees in the west. Our trees and shrubs are carefully packed and wrapped in burlap, sent by express at your expense unless otherwise ordered.

T denotes trees that attain a height of 40 ft. and over; M, 25 to 40 ft.; S, 8 to 15 ft.; D, 2 to 8 ft.

## ACER—Maple

A. *Dasycarpum* or *Eriocarpum*. (Silver-leaved.) T. A hardy rapid growing native tree of large size, valuable for street planting. Our stock of these is very large in all sizes. Price, 8 to 10 ft., 75c; 10 to 12 ft., \$1.00; specimens, \$2.00 each.

A. *Dasycarpum* var. *Wierii Laciniatum*. (Wier's Cut-leaved Silver Maple.) T. One of the best cut or dissected-leaved trees, being of rapid growth it soon produces an effect. Young shoots slender and drooping. Price, 5 to 6 ft., 80c; 10 to 12 ft., \$1.50 each.

A. *Negundo* (Ash Leaved Maple or Box Elder.) M. A fine, rapid growing variety with handsome, light green foliage and spreading head; very hardy; desirable for street planting and succeeds in many sections where other varieties do not thrive. Price, 8 to 10 ft., 75c; 10 to 12 ft., \$1.00 each.

## BETULA—Birch

B. *Alba* (European White Birch.) T. Of which Coleridge says: "Most beautiful of forest trees; the lady of the woods." Price, 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.50 each.

Chinese *Catalpa* (C. Bungei.) A species from China. Foliage large and glossy; a shy bloomer. Top-grafted on tall stems it forms a perfect umbrella-shaped head and makes an effective tree for formal gardens. 1 year head, \$1.50; 2 year head, \$2.00.

## ULMUS—Elm

U. *Americana* (American.) T. The noble, drooping, spreading tree of our woods. One of the grandest of park and street trees. Select specimens. Price, 6 to 8 ft., 75c; 8 to 10 ft., \$1.00; 10 to 12 ft., \$1.50; specimens, \$2.00.

## SORBUS—Mountain Ash

S. *Aucuparia* (Mountain Ash.) M. A small tree with shining, pinnated leaves and large cymes of white flowers, followed by clusters of bright red fruit. Price, 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.50 each.

## TILIA—Linden

T. *Americana* (American.) T. A fine pyramidal tree, with large-sized leaves and fragrant flowers. Price, 6 to 8 ft., 90c each.

T. *Europaea* (European.) M. A fine pyramidal tree, with medium-sized leaves and fragrant flowers. Price, 6 to 8 ft., 90c each.

## QUERCUS—Oak

Q. *Palustris* (Pin Oak.) M. Foliage deep green finely divided assumes a drooping form when it acquires age. One of the most valuable for street planting. Price, \$1.50 each.

Q. *Rubra* (Red Oak.) T. An American species of large size and rapid growth, foliage purplish, red in the fall. Price, \$1.50 each.

## ROBINIA—Acacia or Locust

R. *Pseud-Acacia* (Black Locust.) M. A native tree, of large size and rapid growth; is being largely planted for timber; it is also quite ornamental. The flowers are in long racemes, white or yellowish, fragrant. Blooms in June. Price, 6 to 8 ft., 75c.

## POPULUS—Poplar

P. *Nigra Fastigiata* (Lombardy.) T. This grows to an immense height and is remarkable for its columnar growth. Price, 8 to 10 ft., 75c; 10 to 12 ft., \$1.00 each.

P. *Alba Boileana* (Silver.) M. New pyramidal form, leaves dark green on upper side, brilliant silver underneath. Very beautiful. Price, 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.50 each.

P. *Deltoides* (Monolifera) (Carolina.) M. A vigorous, healthy native tree of rapid growth, pyramid in form, with large, glossy leaves; valuable for park or street planting. Price, 8 to 10 ft., 75c; 10 to 12 ft., \$1.00; specimens, \$1.50 each.

Normay. Tree very hardy; is being planted extensively, resembles Carolina Poplar, but retains its size better as it mounts upward, making a sawlog quicker than any tree in cultivation is also valuable for street and park planting as well as screens and shelters. 8 to 10 ft., 75c; 10 to 12 ft., \$1.00.

## PRUNUS

P. *Padus* (European Bird Cherry.) M. A rapid-growing, beautiful tree, with glossy foliage and long bunches of white, fragrant flowers in May, succeeded by clusters of fruit like black currants. Price, 6 to 8 ft., 75c; 8 to 10 ft., \$1.25 each.

Cherry, Wild Black. A beautiful upright, round headed, strong growing tree; slender, glossy leaves; hardy. 4 to 5 ft., 60c.

## LIRIODENDRON—Tulip Tree

L. *Tulipefera* T. One of the very largest native trees, with large, smooth, shining leaves, greenish-yellow flowers and an unbragous head. Price, 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.50 each.

## PLATANUS—Sycamore or Plane

P. *Orientalis* (European Plane.) T. A lofty, wide-spreading tree; large five-lobed leaves; valuable for its handsome foliage and free growth; makes an excellent street tree. Price, 5 to 6 ft., 50c each.

Walnut (American Black.) The large, oily nuts are borne in heavy crops. They are much relished and always bring a fair price in market. Trees grow quite fast; wood is very valuable. Price, 5 to 6 ft., 75c; 6 to 8 ft., \$1.00 each.

# WEeping TREES

## MORUS—Mulberry

M. *Var. Tartarica Pendula* (Tea's Weeping Mulberry.) S. A graceful and beautiful hard tree, forming a perfect umbrella-shaped head, with long, slender, willow branches, drooping to the ground and gracefully swaying in the wind. Price, 1 yr. head, \$1.50; 2 yr. head, \$2.00 each.

## ULMUS—Elm

U. *Var. Camperdown Pendula* (Camperdown Weeping Elm.) S. One of the finest weeping trees for the lawn. With broad foliage and branches drooping gracefully to the ground. Price, 1 yr. head, \$1.50; 2 yr. head, \$2.00 each.

## SALIX—Willow

S. *Babylonica Var. Ramulis Aureis* (Golden-Barked Babylonian Willow.) T. A novel and distinct variety of the well-known Babylonian Willow, with bright golden bark in winter. Price, 6 to 8 ft., \$1.00; specimens, \$1.50 each.

## BETULA—Birch

B. *Alba Var. Laciniata Pendula* (Cut-Leaved Weeping.) T. Trunk straight, slender, white as snow; branches hanging in long, pendulous threads from a great height; leaves finely cut; a universal favorite. Price, 6 to 8 ft., \$2.25 each.

Mountain Ash (Weeping.) A beautiful tree, with straggling, weeping branches; makes a fine tree for the lawn; suitable for covering arbors; hardy. Price, 6 to 8 ft., \$1.00.

Maple, Wier's (Weeping.) A handsome cut-leaved weeping tree of the maple variety; hardy. Price, 5 to 6 ft., \$1.00.

Willow, Russian Yellow (Weeping.) One of our finest and best natural weepers. Extremely hardy. Price, 5 to 6 ft., \$1.25.

Wisconsin Willow (Weeping.) Of drooping habit and considered the hardest. Valuable on account of its ability to resist severe cold. Price, 4 to 5 ft., \$1.00.

Thurlo Willow (Weeping.) A very handsome rapid-growing weeping tree; will make a large tree in a very few years; hardy. Price, 5 to 6 ft., \$1.00.

Sprayers and Spraying Material,  
Page 63 to 65

Be sure to see our fine Rose and Perennial Plant Collections, pages 52-58.

# Evergreens-Coniferae

## Specimen Evergreen Trees

The following Evergreen Trees have all been transplanted two or three times, are handsome, selected trees, well branched and rooted, suitable for lawns, etc. Are dug with ball of dirt and burlapped.

**BALSAM FIR** (A. Balsamea). A very erect, regular pyramidal tree with dull, dark green foliage; rapid growth and very hardy. 3 ft. \$3.50; 3 to 4 ft. \$4.50 each.

**A. DOUGLASSII** (Douglas Spruce.) Large conical form; branches spreading, horizontal; leaves light green above, glaucous below. Price 2 to 3 ft. \$3.00; 3 to 4 ft. \$4.00 each.

### JUNIPERUS—Juniper

**J. HIBERNICA** (Irish Juniper). One of the most popular Junipers known. Rigidly upright and formal in character, resembling a green column. Price, 2 to 3 ft. \$1.50; 3 to 4 ft. \$2.25 each.

### THUJA—Arborvitae

**T. OCCIDENTALIS** (American Arborvitae). A well-known native species of great value. It forms an upright conical tree of only medium size, and is especially valuable for screens and hedges. Price, 2 to 3 ft. \$1.25; 3 to 4 ft. \$2.25; 4 to 5 ft. \$3.00 each.

### PICEA—Spruce

**P. CANADENSIS** (Black Hill Spruce). This is a truly remarkable tree, well suited to our varying climatic needs. Plant liberally of this splendid variety and you will never regret it. It grows to a large size, finally reaching a height of 75 to 100 ft. Moderately fast grower. Price, 18 to 24 in. 75c; 2 to 3 ft. \$2.25; 3 to 4 ft. \$4.50 each.

**P. EXCELSA** (Norway Spruce.) Rapid in growth, gracefully drooping in habit, dense in structure, regular in outline and perfectly hardy. Price, 2 to 3 ft. \$2.50; 3 to 4 ft. \$3.25 each.

**P. PUNGENS GLAUCA KOSTERIANA** (Koster's Blue Spruce.) The richest colored of the tinted evergreens, hardy, vigorous grower, elegant habit. A beautiful tree for any lawn with its silvery blue sheen. We handle only the very best imported grafted trees of this variety. Price, 8 to 24 in. \$2.00; 2 to 3 ft. \$4.00; 3 to 4 ft. \$7.50 each.

**P. PUNGENS GLAUCA** (Colorado Blue Spruce). This is the selected blue form of the Picea Pungens. Only a small percentage of this variety produces the true blue foliage. Price, 2 to 3 ft. \$2.25; 3 to 4 ft. \$6.00 each.



Blue Spruce



## SPECIAL OFFERS IN EVERGREEN TREES

### HARDY EVERGREENS FOR WINDBREAK, HEDGE AND LAWN PLANTING

Strong, Heavy, Well Rooted Transplanted Stock

For Express Shipment—Hardy Outdoor Spruces, Pines Firs, Etc.

SAFE ARRIVAL GUARANTEED TO ANY POINT IN THE U. S.

Evergreen trees will bring a new beauty and charm to your home. There is unquestionably no better way of beautifying your place than surrounding it with beautiful Evergreens. As an ornamental tree Evergreens are unsurpassed. No other trees remain green through summer and winter; none are more beautiful. But while their value in this respect is great, Evergreens are most useful in other ways. They protect houses, stock and crops from wind, sun and snow. They conserve the soil's natural moisture. They form a substantial shelter and nesting place for the birds that rid your acres of worms and destructive insects. They are a source of salable timber for fence posts and other uses. Plant some Evergreens around your garden and just see how much difference there is in the temperature and moisture. You will find that you can grow flowers, fruits and vegetables that you never could before.

These varieties have been thoroughly tested and proven absolutely hardy and reliable and will grow successfully in all parts of the country. Send in your order now. Shipment will be made during March, April or May—depending on locality.



|                                | Size          | 5      | 10     | 100     |
|--------------------------------|---------------|--------|--------|---------|
| *Norway Spruce (W).....        | 1 to 1½ feet  | \$1.50 | \$3.00 | \$25.00 |
| *American Arbor Vitae (H)..... | 1 to 1½ feet  | 1.75   | 3.50   | 30.00   |
| *Colorado Douglas Fir (L)..... | 1 to 1½ feet  | 1.50   | 3.00   | 25.00   |
| Austrian Pine (W).....         | 1 to 1½ feet  | 1.50   | 3.00   | 25.00   |
| Balsam Fir (L).....            | 1 to 1½ feet  | 2.75   | 5.50   | 50.00   |
| Scotch Pine (W).....           | 1 to 1½ feet  | 1.50   | 3.00   | 25.00   |
| Concolor Silver Fir (L).....   | 1 to 1½ feet  | 2.75   | 5.50   | 50.00   |
| Ponderosa Pine (W).....        | 1 to 1½ feet  | 1.50   | 3.00   | 25.00   |
| Black Hill Spruce (W).....     | 1 to 1½ feet  | 2.75   | 5.50   | 50.00   |
| *Dwarf Mountain Pine (L).....  | 10 to 12 inch | 2.75   | 5.50   | 50.00   |
| Jack Pine (W).....             | 12 to 18 inch | 1.50   | 3.00   | 25.00   |
| Assorted Varieties .....       | 12 to 18 inch | 1.50   | 3.00   | 25.00   |



Varieties suitable for Windbreaks are marked (W), Hedges (H), Lawn Planting (L).

\* Starred sorts denote leaders.

50 of same variety and size at 100 rate.

Prices include careful packing for Express shipment. Complete planting instructions and cultural directions will be furnished with each order.

**ALL KINDS RABBIT REMEDIES AND SUPPLIES LISTED ON PAGE 87**

# Hardy Ornamental Shrubbery

The planting of shrubs, or perhaps combined with shade trees, with some conception as to the effect to be produced in future years, is a matter to be considered by everyone who wishes to complete the picturesqueness of a villa residence or country home. Shrubs around a house hide unsightly corners, and the hard, straight lines of the architecture; or grouped at a distance, by the sides of walks, carriage drives, and fences, they break what might be a monotonous line of vision over bare lots, and give a tone of privacy to the home surroundings.

T—Denotes shrubs that grow 12 to 15 feet high

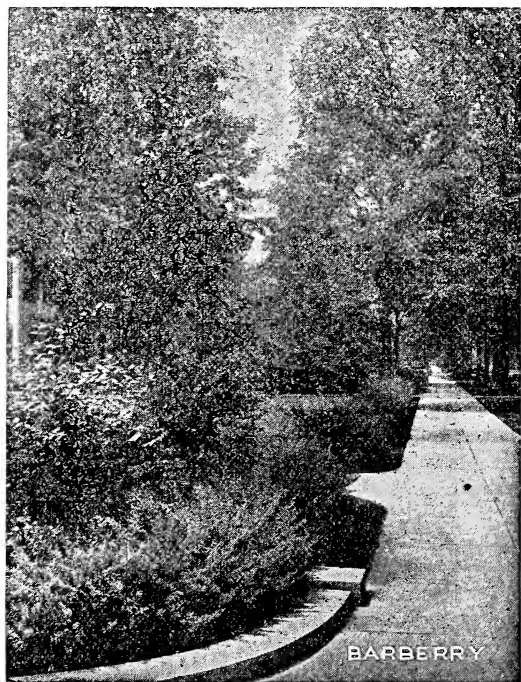
L—Denotes shrubs that grow 8 to 12 feet high

M—Denotes shrubs that grow 6 to 8 feet high

S—Denotes shrubs that grow 3 to 6 feet high

D—Denotes shrubs that grow 2 to 3 feet high

Prices on ornamental shrubs are by express at your expense unless otherwise stated.



|  |           |
|--|-----------|
| ALTHEA. (Hibiscus.) Rose of Sharon.....                      | 50c each  |
| Double Rose.....   | 50c each  |
| Double Violet.....   | 50c each  |
| Double Red.....  | 50c each  |
| Single Blue.....   | 50c each  |
| Double White.....  | 50c each  |
| Pure White, Variegated foliage.....                          | 50c each  |
| TREE ALTHEA. Jeanne d'Arc; Anemoneflorus; Ardens. 4 to 5 ft. | 75c each. |

**ARALIA SPINOSA** (Hercules Club, Angelica Tree, or Devil's Walking Stick.) A singular native tree-like shrub, growing from 10 to 15 feet high, with very prickly stems, pinnate leaves and immense pinnacles of white flowers in August, followed by black fruit which makes it attractive until late in fall, an odd tropical looking plant. 50c each.

**BARBERRY. B. Thunbergii.** D. From Japan. A very pretty species of dwarf habit, small foliage, changing to a beautiful coppery red in autumn. Valuable as an ornamental hedge. 18 to 24 inches, 20c each \$1.75 per 10; \$15.00 per 100.

**BUDDLEIA.** (Butterfly Shrub, or Summer Lilac.) *Varibilis Magnifica.* One of the most desirable summer flowering shrubs beginning to bloom in July, it continues until cut by severe frost. The flowers are of a pleasing shade of violet-rose, and are borne in dense cylindrical spikes, which, under liberal cultivation, are from 12 to 15 inches in length by 3 inches in diameter; it succeeds everywhere and flowers freely the first season planted, and is always admired. 60c each.

**GARAGANA** (Pea Tree). A handsome dwarf tree with bright yellow flowers in May and June. 5 to 6 feet \$1.00 each.

**DOUBLE FLOWERING CRAB.** One of the most beautiful of the many fine varieties of flowering crabs. Tree of medium size, covered in early spring with large, beautiful, double fragrant flowers of a delicate pink color. From a distance the flowers have the appearance of small roses. 3½ ft. Large \$1.00.

**PRUNUS JAPONICA** fl. pl. (Almond). A beautiful dwarf shrub, producing its showy double flowers early in May before the leaves appear. We can supply both white and pink. 60c each.

**CORNUS** (Dogwood). The shrubby Dogwoods are mainly valuable for the brilliancy of their barks and berries and the handsome variegation of their foliage.

**Lutea.** A yellow barked dogwood which gives a very beautiful effect in winter, when contrasted with the Siberica. 50c each.

**Sibirica.** Grows 6 to 10 feet high, with clusters of fine white flowers, succeeded by a fall crop of ornamental berries, stem and branches turning to blood-red in winter. 40c each.

**Stolonifera.** (Red Ozier Cornel.) Medium sized and spreading, with dark red bark and white flowers, berries white. 50c each.

**CYDONIA JAPONICA** (Japan Quince). Very early in spring, this fine old shrub is completely covered with

dazzling scarlet flowers, followed by small, quince-shaped fruits which are quite fragrant. Growth bushy and dense with protecting thorns. 50c each.

**DEUTZIAS.** Valuable, self-sustaining shrubs which vary considerably in height and habit, but bloom alike in dainty bell or tassel-shaped flowers borne thickly in wreaths along their branches in June. The taller sorts are useful for specimens groups, and the background of shrubberies, the dwarfier for borders or for planting near the house.

**Crenata.** Distinct from all others; white. 50c each.

**Gracilis.** A favorite dwarf bush, covered with spikes of pure white flowers in early summer. 50c each.

**Lemoinei.** Large flowers of pure white borne in cone-shaped heads. 50c each.

**Pride of Rochester.** Grows 6 to 8 feet high, and blooms in May before the others. Flowers large and free; double white. 50c each.

**HYDRANGEA. Paniculata Grandiflora.** This familiar old shrub is one of the most prominent factors during August and September, in brightening up the lawn and shrubby groups. Single specimens, if planted in rich soil and severely pruned every spring before the leaf buds open, will get to be very dense, stocky clumps of compact form, and are wonderfully attractive when laden with their massive white plumes. Large beds, kept at a uniform development, are extremely showy; first snowy white, then pink, then reddish bronze and green. 75c each.

**LONICERA** (Bush Honeysuckle). The upright Honeysuckles have bright and pretty fragrant flowers followed by showy berries that last through the fall. Make desirable and attractive hedges.

**Alberti** (Siberian Honeysuckle). Dwarf bushy growth, about 2 feet, with silvery, pinnate foliage; fragrant, violaceous pink flowers in June. 50c each.

**Fatarica Grandiflora Alba.** A variety of upright habit, with very large, pure white flowers. 50c each.

**Rartarica Rosea.** The best known of all the Bush Honeysuckles, and in our estimation the finest variety of all. Grows to a height of 8 to 10 feet with upright somewhat spreading branches and bright green foliage. The flowers are borne freely in May and June, are of bright pink color, followed by showy red berries which ripen in mid-summer and cling to the bush for several weeks. This fine shrub is of great value planted as a background for smaller shrubs. It withstands successfully the severest winters. 50c each.



Double Flowering Crab

**LILAC** (*Syringa*). This group is so well known that there is no need of extended description. To reach perfection, should have a moist, rich soil.

**Syringa** (*Persian*). Native of Persia; from 4 to 6 feet high with small foliage and bright purple flowers. Each 50c.

**Common Purple**. Bluish purple flowers. Each 25c. **White**. A beautiful variety; has very large, pure white panicles of flowers. Each 50c.

**PRIVET** (*Lingustrum*). Besides being one of our best hedge plants, the various species of Privet form interesting groups on the lawn. They are almost evergreen; of dense compact habit. The flowers are fragrant and are followed by pretty sprays of different colored berries.

**Amor River Privet** (*L. Amurense*). A valuable ornamental shrub for hedges and borders; very hardy; foliage glossy green and holds its color almost the entire year; will stand shearing to any extent.

**California Privet** (*L. Ovalifolium*). The well-known variety; vigorous and hardy; deep glossy green; useful for hedges and borders.

**English Privet** (*L. Vulgaris*). Foliage narrow; showy white flowers in June, followed by fruit.

**Chinese Privet** (*L. Ibotia*). A native of China and Japan; foliage long and shining; flowers large, white and fragrant; a distinct sort, valuable for its flowers and foliage.

**Regel's Privet** (*L. Regelianum*). A dense low shrub with spreading branches, pendent at the end; a very graceful bush for hedges; needs very little trimming. Price of Privets: 18 to 24 in., \$2.00 doz.; \$15.00 per 100.

**ELDER** (*Sambucus*).

**Common Elder** (*S. Canadensis*). A large showy shrub, very ornamental in foliage, fruit and flowers and blossoming in June; flowers white, borne in large panicles; fruit reddish-purple berries in the fall.

**Cut Leaved Elder** (*S. Nigra* var. *Lociniata*). One of the best cut leaved shrubs; a valuable variety with elegantly divided leaves.

**Golden Elder** (*S. Nigra* var. *aurea*). A handsome variety with golden-yellow foliage.

**Variegated Leaved Elder** (*S. Nigra* var. *variegata*). The foliage is mottled with yellow and white; one of the best of the variegated leaves.

Price of all Elders: 50c each; \$5.00 dozen; by express.

**RHUS AROMATICA** (*Fragrant Sumac*). Grows 2 to 4 feet tall; flowers yellow in clusters along the stems, followed by red berries in June. Leaves color to brilliant scarlet in fall.

**Purple Fringe** (*R. Continus*). L. A much admired small tree or shrub for its curious fringe of hair-like flowers that cover the whole surface of the plants in mid summer. 50c each.

**Common Sumac** (*R. Glabra*). 6 to 8 feet. The brilliant-colored foliage in autumn makes fine contrast with a dark background. Can be used with good effect in landscape work. 50c each.

**Staghorn Sumac** (*R. Typhina*). A large shrub or tree. Brilliant foliage and scarlet fruit in autumn. 50c each.

**Cut-leaf Sumac** (*Var. Laciniata*). 4 to 5 feet. A very striking plant of medium size, with deeply cut leaves resembling fern leaves, dark green above and glaucous below, turning to a rich red in autumn. 50c each.

**RIBES** (*Flowering Currants*). Hardy, bushy shrubs growing 8 to 10 feet high, prized on account of their early spring flowers; bright berries and dark; and pretty richly coloring foliage.

**Aureum** (*Golden Currant*). Yellow flowers and dark brown fruits. 40c each.

**Sanguineum** (*Red Flowering Currant*). Red barked twigs; and reddish flowers. 50c each.

**SYRINGA** (*Philadelphus*). Also known as **Mock Orange**. Are mostly large shrubs, growing from 6 to 10 feet high. Of various habit, very hardy, with large, handsome foliage and beautiful white flowers produced in great profusion. The merit a place in every collection of shrubbery.

**Grandiflora**. Very large flowers in June. Fine. 60c each.

**Aurea** (*Golden Elder*). Contrasted with other shrubs, the golden yellow leaves of this Elder give heightened effects in tone and color. Flowers white, in flat-topped cymes. Grows naturally 10 to 15 feet, but can be pruned into a neat, compact little bush. 60c each.

**SNOWBALL VIBURNUM**. (*Opulus Sterilis*). **Common Snowball**. L. An old and well-known shrub, bearing large balls of pure white flowers. 60c each.

**Opulus** (*High Bush Cranberry*). L. Very ornamental berries resembling small cranberries, hang until destroyed by frost late in fall. 60c each.

**SPIREA** (*Meadow Sweet*). An indispensable class of small to medium-sized shrubs, embracing a wide range of foliage, habits of growth, color of flowers and season of blooming. All of easiest culture in all soils.

**S. Anthony Waterer**. D. A new crimon-flowered variety. It makes a low, compact bush, 15 to 18 inches high, and is covered nearly the whole growing season with large umbels of deep crimon flowers. Perfectly hardy, it makes a fine, compact plant for low clumps or for bedding purposes. 60c each.

**S. Opulifolia** (*Nine Bark*). M. A strong growing shrub with white flowers. 50c each.

**Sorbiifolia** (*Ash-leaved Spirea*). A vigorous species, with leaves like that of the mountain Ash, long, elegant spikes of white flowers in July. 50c each.

**S. Thunbergii** (*Thunberg's*). S. Dwarf habit and round, graceful form, branches slender and somewhat drooping; foliage narrow and yellowish green. Flowers small white. Esteemed on account of its neat, graceful habit and early blooming. 50c each.

**S. Van Houtte**. M. The grandest of all the Spireas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing. Clusters of twenty to thirty flat, white florets make up the racemes, and these clusters are set close along the drooping stem. Perfectly hardy and an early bloomer. 50c each.



BRIDAL WREATH.

**TAMARIX** (*Tamarisk*). The Tamarisks are hardy shrubs, of strong growth, foliage light and feathery, their flowers delicate and fringing, usually in some light shade of red or pink. They will grow anywhere. 60c each.

**WEIGELIA**. A valuable family, handsome in foliage as well as flowers. Are easily grown and adapted to a variety of soils. The flowers are trumpet-shaped and are borne thickly in clusters along the stems.

**D. Candida**. M. Of vigorous habit, flowers pure white and produced in great profusion in June, and continue to bloom at intervals through the summer. 60c each.

**D. Eva Rathke**. M. A charming new Weigela; flowers brilliant crimon; a beautiful, distinct, clear shade. 60c each.

**D. Rosea**. M. One of the most popular shrubs known. Flowers bright rose. 60c each.

**Treatment of Trees That Have Been Frozen in the Packages, Received During Frosty Weather, or After**

**Long Exposure**. Place the package, unopened, in a cellar or some such place, cool, but free from frost, until perfectly thawed, when they can be unpacked and either planted or placed in a trench until convenient to plant. Treated thus they will not be injured by the freezing. If dried from long exposure bury entirely under the ground, soaking well with water, or place in water from 2 to 24 hours, and prune more closely than ordinarily.

No park space, lawn, or large grounds of any kind are complete without a Persian Lilac, Spirea Van Houtte and a Tamarix Shrub.

# Hardy Climbing Vines

ORDERS SHOULD REACH US BY MAY 1, AT THE LEAST

Your home, out-buildings, fences and trunks of old trees can be made very attractive by the use of hardy vines. Such permanent improvements add greatly to the value of your property, and the value increases from year to year. We furnish nice, strong, field grown plants at prices given below.



## WISTERIA

The Wisteria is particularly valuable for training over buildings, second floor verandas and wherever tall-growing climbers are wanted it is a vigorous rapid grower, entirely hardy. The flowers are borne in large clusters.

**CHINESE PURPLE.** Of lovely, rich, violet-purple color, deliciously scented; handsome. Large size, 75c each; postpaid.

## HARDY IVES

**AMPELOPSIS QUINQUEFOLIA** (Virginia Creeper). A native vine of rapid growth, with large, luxuriant foliage, which in autumn assumes the most gorgeous and magnificent coloring; perfectly hardy; the best climber for Nebraska. 50c each.

**AMPELOPSIS ENGLEMANNI.** Of denser growth, shorter jointed and richer in effect than the quinquefolia. Grows six to ten feet in a season. Will cling to a brick wall without any extra support. 75c each.

## CLEMATIS

There is no more ornamental class of plants than Clematis and the rich show of bloom produced by the best varieties is far too magnificent to be fairly portrayed by mere words. The colors run from intense velvety-purple, through crimson, blue, lavender and white. We presume that every one of our customers who sees Clematis plants in bloom each summer promises to plant some in his own garden or yard at the next opportunity. Here is the opportunity. They are especially adapted to our climate.

### LARGE FLOWERING VARIETIES

**HENRYII.** A vigorous grower and a free bloomer, producing its large, pure white flowers constantly during summer and early autumn. The best large-flowered variety. \$1.00 each; postpaid.

**JACKMANII.** The flowers are large, intense rich velvety violet-purple and are produced in such masses as to form a cloud of bloom. Well known and very popular. \$1.00 each postpaid.

### SMALL FLOWERING VARIETIES

**PANICULATA.** One of the most valuable of all hardy flowering vines. Of exceedingly rapid growth, soon reaching a height of fifteen to twenty feet and spreading out in all directions. Small, pure white flowers, borne in great masses of panicles or clusters on long stems, so profuse as to fairly cover the plant with a sheet of fleecy white. Its blooming period is in August and September, when most other vines have ceased, and it is then a sight to behold. Not its least charm is its delightful Magnolia-like fragrance. Hardy as an oak. Strong two-year field plants to bloom this year, 65c each postpaid.

## HONEYSUCKLES

For real handsome vines, to be near you, climbing over your windows and doorways, there is nothing prettier than sweet-scented Honeysuckles; the foliage is pretty, neat and clean, the flowers are almost continuous, and their fragrance delicious.

## HONEYSUCKLE HEDGES

Some of our friends have conceived the idea of planting Honeysuckles along the division fences, and it is wonderful what pretty hedges they make. Iron or wire fences are the best, but almost any kind is soon covered with a mantle of living green. Other climbing vines will answer the purpose, but sweet-scented Honeysuckles are both fragrant and beautiful. They should be planted two feet apart.

**MONTHLY FRAGRANT.** Red and yellow; very fragrant. Blooms all summer; leaves tinged reddish color. Large size only 75c postpaid.

**HALL'S JAPAN.** A good strong growing, almost evergreen sort, with pure white flowers, changing to yellow. Very fragrant and covered with flowers from July to November. Large size 75c; postpaid.

**SCARLET TRUMPET.** Red trumpet-shaped flowers; blooms freely, vigorous and rapid growing. Large size 75c; postpaid.

**YELLOW TRUMPET.** Golden trumpet-shaped flowers; fragrant. Large 75c; postpaid.

**BIGNONIA** (Trumpet Creeper). Scarlet trumpet flowers with long, handsome, dark green foliage and quite showy clusters of orange and scarlet flowers during the summer. Large only, 75c each; postpaid.

**CINNAMON VINE.** A beautiful hardy climbing vine, which will quickly surround an arbor, window or veranda with a profusion of vines covered with handsome, glossy, heart-shaped leaves, bearing great numbers of delicate white blossoms, which emit a delicious cinnamon fragrance. We know of no vine that is more satisfactory, being perfectly hardy, thriving everywhere, and when once planted will grow for many years and be a source of constant delight. The vines quickly make long shoots 25 feet or more in length, and can be used for all purposes where a beautiful climbing vine is needed. Plant the bulbs about one inch deep in rich soil, and with the approach of winter cover lightly with straw and leaves to prevent freezing. 2 for 15c; 4 for 25c; postpaid.



Jackmanii

## Roses

**NOTE:** The "large" roses are 2-year-old field grown; "small," 1-year-old pot grown. Order in spring, not later than June 1st.

To obtain the most satisfactory results, roses should be planted in well drained, rich deep loamy soil, and given a location where they have sunlight and a circulation of air. For winter protection an application of composite or rotten manure should be given them in the late autumn, and spaded into the ground the following spring.

**NOTICE:** If the plants look wilted when received put them in lukewarm water for 15 or 20 minutes. Set the plants about 2½ inches deeper than they were growing before and press the soil firmly around the roots. Give them a good watering. Shade from sun and wind until they begin to grow.

### TEAS AND HYBRID TEAS

Price of all Roses on this Page: Small 25c; 6 for \$1.25; 12 for \$2.00. Large 2-year-old Field Grown, 60c each; 3 for \$1.60; 6 for \$3.00.

**KILLARNEY (The Irish Beauty).** Brilliant sparkling pink with large, pointed buds, broad, wax-like petals with silvery edges and enormous semi-full flowers of exceeding beauty. One of the very finest forcers and has become the type for a numerous family.

**KILLARNEY BRILLIANT.** Newest member of its family and expected to push Killarney, its parent, off the field. Color varying from crimson-pink in winter to a bright, true pink in hot weather, brilliant throughout the year. As free a producer and a trifle stronger than the parent, with nearly double the petalage. First year's sales enormous.

**KILLARNEY QUEEN.** A cerise pink sport from Killarney, unequalled for clearness and brightness of color, with petals larger than in the parent, and its perfect foliage likewise larger and more glossy.

**WHITE KILLARNEY.** A pure white sport from the pink parent above described. Identical with the pink variety except in color.

**LA FRANCE.** Silvery-rose, with pink shades and satin-like petals of unsurpassable beauty; large, symmetrical and deliciously fragrant blossoms from June until frost; hardy with protection.

**LEMON QUEEN.** Lemon-yellow. The build of the flower is a refined "Druschki." The fragrant is delicious and is a desirable attribute. A rose par excellence.

**THE BRIDE (White Tea Rose).** Flowers very large on long, stiff stems. They last a long time after being cut, making it one of the best for bouquets. Sometimes a pinkish white in hot weather but usually a pure white.

**BRIDESMAID.** Clear, shining pink, buds of exquisite shape; stems long and stiff; a profuse bloomer. A leader of pink forcing roses since 1893, and likewise an outdoor favorite.

**CLOTHILDE SOUPERT.** A really wonderful Rose for bedding out or for pot culture; medium size and very double; white, shading to deep pink at center; a profuse grower and a strong dwarf grower, deliciously fragrant.



Killarney

**HERMOSA.** Popular for many years; cup-shaped, finely formed and full of flowers of soft, deep pink; ever-blooming, beautiful and hardy.

**METEOR.** Intense velvety-crimson, buds and blooms large, elegantly formed, fully double and borne on nice, long stems, bright foliage of the deepest green. Brilliant and highly popular.

**OPHELIA.** Brilliant salmon-flesh shaded with rose on outer edges of petals with a heart of glowing peach-pink and orange-yellow blendings, all passing finally to lighter shades; fragrant as Richmond, faultless form in bud and flower; erect habit, stiff, long stems; free and continuous in growth and bloom; handsome, bright foliage; immune to mildew and black spot; possesses every requisite of a perfect forcing rose.

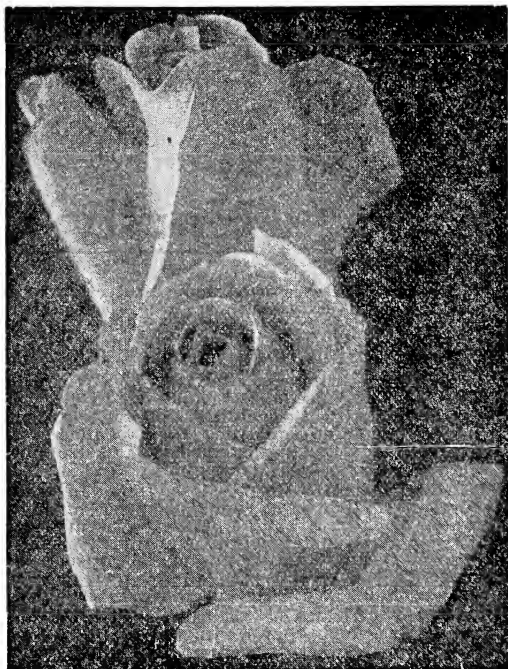
**SUNBURST.** This magnificent giant yellow Rose is a fine forcer; it stands head and shoulders above all others of its color and will rank with American Beauty, and the Killarneys in value and grandeur. The color is orange-copper or golden-orange and golden-yellow; edge of petals lighter. Some call the color cadmium-yellow. It makes no difference what you call its color, it is yellowish of all roses in the ever-blooming class. Belongs in the class of big Roses. It puts all the yellows to sleep when it comes to bedding in the garden. The golden-yellow color stays right with the flower until it fully finishes. Better get acquainted with "Sunburst."

**RADIANCE.** Brilliant rosy-carmine, shaded with rich opaline-pink tints in the open flower, which is large, full, of fine form, with cupped petals. A constant and fragrant forcer, producing strong, upright canes and an excellent keeper in summer. Seedling from Cardinal.

**PINK SOUPERT.** Rose-pink in color; otherwise same as Clothilde Soupert; always in bloom.

**MAMAN COCHET.** Rich, rosy-pink, shaded silvery-rose on outer petals; exquisite in color and graceful in form from bud to bloom and delightfully fragrant; beautiful, healthy foliage and long, stiff stems. Unquestionably the queen of pink Tea Roses and a leading cut-flower variety.

**WHITE MAMAN COCHET.** Identical with its parent, Maman Cochet, in everything except color.



Radiance

## Hybrid Perpetual Roses

Price, small size, 20 cents each; any five of your own selection for 90 cents; any twelve for \$1.50. If you leave the selection of the varieties to us, we will send six for 90 cents, or thirteen for \$1.50. Large two-year-old Roses from this list, 60 cents each, or four for \$2.00

**AMERICAN BEAUTY.** (Mme. Ferd. Jamin.) Generally conceded to be the most grandly beautiful of Roses in size, form and color. Rich red, passing to crimson, very delicately veined and shaded and surpassingly fragrant. A hardy ever-bloomer and rapid grower. Small 20c each; large 60c; postpaid.

**ANTOINE RIVOIRE.** This is the famous Mrs. Taft Rose of the fashionable Eastern markets. This Rose is in a class by itself; no Rose ever produced has such substance of petal; color creamy-white with rainbow tints; a beauty and a wonder.

**BOULE DE NEIGE.** (Ball of Snow). Pure white, showing light flesh upon opening; elegantly formed, very full and double, with beautifully shaped petals evenly arranged; hardy. Small 20c each; large 60c; postpaid.

**J. B. CLARKE.** Intense scarlet, shaded crimson-maroon, very dark and rich, and sweetly fragrant; petals large, deep and smooth; extremely high pointed center; foliage bronzy-green changing to dark green; growth strong and upright, making a large, handsome bush. Small 20c each; large 60c; postpaid.

**FRAU KARL DRUSCHKI.** (The White American Beauty, or Snow Queen.) An everyday hardy, vigorous grower, with bright green leaves, delicately veined; splendid long buds and magnificent snow-white blooms with very large saucer-shaped petals. Rightly named and deservedly a prize winner. Small 20c each; large 60c; postpaid.

**ETOILE DE FRANCE.** For the best red garden Rose it lies between this one, Rhea Reid and Helen Gould. Some say one and some say the other.

**DUCHESSE DE BRABANT.** Bright salmon-pink; an old favorite.

**GENERAL JACQUEMINOT.** A celebrated and much sought after variety, both for planting out and pot forcing; shapely buds and handsome blooms of bright shining crimson, rich, brilliant, velvety and fragrant. Everybody knows and wants the "Jack" for its all "round" good qualities. Small 20c each; large 60c; postpaid.

**GRUSS AN TEPLITZ.** (Greeting to Teplitz, or Virginia R. Cox.) Hardy in all sections; grows freely to a height of four to five feet; vivid, dazzling, fiery crimson; sweetly fragrant; produces a mass of gorgeous blooms on long stems. Small 20c each; large 60c; postpaid.

**HUGH DICKSON.** Brilliant crimson, shaded scarlet; very large and beautiful in form, with large, smooth petals, slightly reflexed on the edges. A vigorous grower, with handsome foliage; very fragrant. Small 20c each; large 60c; postpaid.

**HELEN GOULD.** A rich red Rose that is a great bloomer; the shade of red has been described best as a watermelon-red; elegant.

**LADY HILLINGDON.** Deep golden-yellow; superb.

**JONKHEER J. L. MOCK.** Clear, imperial-pink; superb.

**MADAME PLANTIER.** A June Rose, well worthy of its long and continued popularity. Pure white, large and double; hardy as a forest tree; a free and continuous bloomer of the best white Hybrid Perpetuals, used extensively for cemetery planting. Small 20c each; large 60c; postpaid.



White American Beauty

**MISTRESS JOHN LAING.** Beauty in clear, bright, shining pink; each bud in its long, serrated calyx with adjacent green foliage, forms a very dainty and lovely boutonniere; immense, full bloom on long stiff stems sweetly scented. Small 20c each; large 60c; postpaid.

**PAUL NEYRON.** The largest of all Rose blooms; bright, shining pink, clear and beautiful; very double and full; finely scented; blooms first season and all summer. Grows to a great height in a single season and stems are almost thornless. Small 20c each; large 50c; postpaid.

**F. R. PATZER.** Creamy-puff, reverse delicate pink; extra fine.

**RHEA REID.** Richest deep crimson; fine for garden.

**HUGO ROLLER.** Rich lemon-yellow, suffused crimson.

**PRINCE CAMILLE DE ROHAN.** (La Rosiere.) Universally known as "The Black Rose," owing to its very deep, velvety crimson color, passing to intense maroon, and shaded black; large, handsome and fragrant blooms. Small 20c each; large 60c; postpaid.

**ULRICH BRUNNER.** Brilliant cherry-red flowers of immense size and bold globular form. Seedling of Paul Neyron, strong and disease resisting. Small 20c each; large 60c; postpaid.

## Hardy Climbing Roses

This class of Roses need some protection in this climate, that is, states north of Kansas. A good plan is to lay them down and cover with straw or leaf mulch. It is freezing and thawing alternately that kills Rose bushes.

Price all Climbing Roses: Small 25c; Large 60c.

**CLIMBING AMERICAN BEAUTY.** Seedling from American Beauty with an admixture of Wichuriana and Tea blood. Same as its namesake in size, color and fragrance, with the addition of the climbing habit. Better blooming qualities, good foliage, and has proven hardy and withstood heat and drought. Small 25c each; large 60c; postpaid.

**CRIMSON RAMBLER.** Most popular out-of-door climber of today; a rapid producer of long, heavy canes, reaching a height of ten to twenty feet in one season; rich clusters of bloom from a mass of vivid-crimson beauty until late in the season. Perfectly hardy in the most trying climates being a native of Japan. Small 25c each; large 60c; postpaid.

**DOROTHY PERKINS.** Beautiful shell-pink color which holds for a long time fading finally to a lovely deep rose; very sweet-scented; fully equal to Crimson Rambler in foliage, hardiness, habit of growth and blooming qualities. Small 25c each; large 60c; postpaid.

**EXCELSA** (Red Dorothy Perkins.) Intense crimson-

scarlet; double flowers in brilliant clusters set in glossy shining foliage which never mildews nor spots. An intensified Crimson Rambler, which it promises to displace. Extremely vigorous and the handsomest of all the red climbers. Small 25c each; large 60c; postpaid.

**WHITE DOROTHY PERKINS.** Pure white sport from Dorothy Perkins, with which it is identical in foliage and habit. A valuable addition to the hardy climber class. Small 25c each; large 60c; postpaid.

**SHOWER OF GOLD.** Deep golden-yellow orange flowers borne in splendid trusses forming a mass of bloom. Extremely long laterals are densely clad with a beautiful Wichuriana foliage, the leaves on upper side and stems a reddish-brown shot with a silvery sheen. Small 25c each; large 60c; postpaid.

**TAUSENDSCHOEN.** (Thousand Beauties.) Varying shades from a delicately flushed white to a deep pink or rosy-carmine, in bright clusters of blossoms almost covering the handsome pale-green foliage. A vigorous hardy climber with few thorns, of German origin. Small 25c each; large 60c; postpaid.

# Polyantha, or Baby Rambler Roses

A class of miniature Roses derived from the Climbing Polyantha. They are of dwarf habit and bloom so freely as to cover the entire plant with bloom all through summer and fall. The plants are splendid for bedding, or as edgings for borders they are hardy. They are useful, either pot grown or for bedding purposes or for hedge effect.

Price, 20 cents each; five for 90 cents; Two-year plants, 60 cents each; three for \$1.50.

**ANNA MULLER.** The pink Baby Rambler; always in bloom.

**BABY RAMBLER.** Completely hides itself all summer; bright red.

**CATHERINE ZEIMET.** The White Baby Rambler; extra.

**ELLEN POULSON.** Dark brilliant pink; fragrant; fine.

**ERNA TESCHENDORFF.** Deep crimson flushed with carmine; very dark.

**JESSIE.** Bright cherry-crimson Superb.

**LE PONCHEAU.** Dark red in large clusters.

**BABY TAUSENDSCHOEN.** Its flowers are large, so much like Tausendschoen that it has been rechristened "Baby Tausendschoen." It is a bush form of the "Climbing Tausendschoen," or "Thousand Beauties," having all the charm in the variable coloring in its flowers that its parent has, being firm white, delicately flushed pink, changing to deep rosy-carmine. This is a splendid Rose. Try it.

**BABY DOROTHY.** (Pink Baby Rambler.) A prolific producer of pure pink flowers, with all of the good qualities of Crimson Baby Rambler.

## RUGOSA ROSES

The Rugosa Roses are natives of Japan, and are nearly all allied botanically to the microphylla Roses.

They form sturdy, disease-resisting bushes, almost evergreen in the coldest climate. Fine for hedges. Hardy everywhere. 35 cents; two-year plants, 60 cents.

**SIR THOMAS LIPTON.** The best pure white Rugosa Rose. Strong and vigorous; grows four feet high. Flowers perfectly double, pure snow-white. Fragrant; borne on long stems continuously throughout the season. Absolutely hardy everywhere. Splendid for hedging, cemetery and park work.

**NEW CENTURY.** A grand Rose that is entirely hardy bearing beautiful silvery-pink flowers in clusters. This Rose is in bloom all the time. Extra fine for nursery-men.

## MOSS ROSES

These are probably a sport of the Cabbage Rose. The origin of the double Moss Rose is left to conjecture. They have always been favorites, for what can be more elegant than the bud of the Moss Rose and more delicious than its fragrance? Perfectly hardy. 35 cents each; the two for 60 cents; two-year plants, 60 cents; each, the two for \$1.00.

**MOUSSELINE.** Pure, white flower, buds heavily and beautifully mossed.

**PRINCESS ADELAIDE.** Deep blush-pink, with buds that are thoroughly mossed.

# Hardy Perennial Plants

Plants of this class are perfectly hardy in the open ground; they die down to the ground but only to the ground in the winter; once planted they are a lasting pleasure. Failure with them is practically impossible. Orders should reach us by April 15th though in some seasons we can continue to supply this stock up to May 1st.

NOTE—We can only supply perennial seed of varieties where it is listed.

**ACHILLEA** (Yarrow Milfoil.) Free flowering plants of easy culture well adapted for the mixed hardy border. The Achilleas are very hardy and give a wealth of bloom the entire summer.

**THE PEARL.** Pure white flowers in immense clusters; fine for cemetery planting. 15c each.

**Ageratum.** June-August. Yellow, very fragrant flowers. Seed pkt., 8c; plants, 15c each.

**ACONITUM** (Monkshood.) Handsome herbaceous plants with bold spikes of hood-shaped flowers, thriving in either shade or sun. 2½ ft. Aug.-Sept. Rich dark blue. Seed pkt., 8c; plants, 25c each.

**ALYSSUM** (Madwort)

**Saxatile Compactum.** (Basket of Gold.) 1 foot. May-June. Greatly prized for its masses of brilliant golden yellow flowers. Seed pkt., 8c; plants, 20c each.

**Silver Queen.** Beautiful pale lemon blossoms. Plants, 20c each.

**ANEMONES** (Wind Flowers.) Very pleasing for herbaceous border. Fine large flowers. Excellent for bouquets and table decorations.

**Coronaria** (Poppy Anemone). 10 inches. June. Mixed colors. Seed pkt., 8c; plants, 20c; clumps, 25c.

**AQUILEGIA** (Columbine). The Columbines are one of the most elegant and beautiful of the hardy plants, producing their graceful spurred flowers on stems rising 2 feet or more above the beautifully divided foliage.

**Coerulea.** (Rocky Mountain Columbine.) 3 ft. One of the most beautiful of its class. Sepals, deep blue; petals white. Plants, 15c each.

**Single Mixed.** Many shades and colors. Seed pkt., 8c; plants, 15c each; large clumps, 35c.

**ASTER** (Michaelmas Daisies.) Michaelmas Daisies now fill a most important place in all hardy flower gardens, with their masses and clouds of dainty and brightly colored blossoms throughout the autumn months up to November, when other flowers are scarce.

**Mixed Varieties** in the finest array of sizes and colors. Seed pkt., 8c; plants, 15c each; extra large clumps, 35c; collection of 4 varieties, 50c.

**CAMPANULA.** (Original Canterbury Bells.) The old-fashioned sort, with beautiful bell-shaped blossoms. We offer in four different colors or mixed. Dark blue, light blue, rose and white. Mixed, seed pkt., 8c; plants, 15c each.



Bleeding Heart

**CARNATION.** Popular favorites, which are deliciously fragrant color, if protected will live out over winter. Mixed, plants, 15c each.

**DAISY** (Giant Shasta). This is the largest of the Moon Penny Family and was originated by Burbank, who experimented extensively with this flower. Seed pkt., 8c; plants, 15c each; large clumps, 35c.

**COREOPSIS** (Lanceolata Grandiflora). 2 to 3 feet. One of the most popular hardy plants. The flowers are of a rich golden yellow and of graceful form and invaluable for cutting. The main crop comes during the latter part of June but continues in bloom the entire summer and autumn. Will succeed in any soil. Seed pkt., 8c; plants, 25c each.

**DICENTRA SPECTABILIS** (Bleeding Heart). And old-fashioned favorite; its long racemes of graceful heart-shaped flowers are always attractive and is always at home in any part of the hardy border, and especially valuable for planting in the shade. Our stock of this perennial is the finest we have seen. Plants, 15c each; extra large clumps, 35c.

FOR COMPLETE LIST OF BEE SUPPLIES SEE PAGES 67 TO 73

# Perennial Plants Continued



Feverfew (Below); Delphinium (Above)

**DIGITALIS (Fox Gloves).** A handsome and highly ornamental plant of stately growth, succeeding under almost all conditions.

**Mixed Varieties.** Seed pkt., 5c; extra large clumps, 25c.

**OLD FASHIONED LARGE FLOWERING HARDY CHRYSANTHEMUM.** We offer five fine large flowering varieties which have proven absolutely hardy in this latitude, having withstood the severe winters of 1911 and 1915 without injury.

**Autumn Glow.** Rosy crimson. Plants, 20c each.

**Golden Queen.** Yellow. Plants, 20c each.

**Victory.** White. Plants, 20c each.

**Old Homestead.** Pink. Plants, 20c each.

**Indian Red.** Plants, 20c each.

**DELPHINIUM (Hardy Larkspur.)** Few flowers are so handsome as the perennial Larkspur, which supplies our gardens with a wealth of blue that would be sadly lacking if it were not for these magnificent plants. Plants, 35c each.

**Mixed seed only pkt., 8c.**

**DIANTUS or PINKS.** A magnificent genus representing some of the most popular flowers in cultivation, producing a great variety of brilliant color and profusion of bloom.

**Mixed Colors.** Seed pkt., 8c; extra large clumps, 25c each.

**DIANTHUS BARATUS (Sweet William.)** The varieties we offer are an improvement on the old-fashioned kinds, inasmuch as the colors and size of the flowers are very superior, being grown from select seed. Excellent border plants and fine for cutting. Pink, white, red. Plants, 15c each.

We have a very fine mixture of seed saved from the above named sorts. Pkt., 8c.

**FUNKIA SUBCORDATA GRANDIFLORA (The White Plantain or Day Lily).** Pure white, lily-shaped, fragrant flowers. 20c.

**FUNKIA MEDIO VARIEGATA.** Green and white foliage with lavender flowers. 15c.

**GAILLARDIA GRANDIFLORA (Blanket Flower).** The center is dark red-brown, petals marked with rings of brilliant crimson-orange and vermillion. 15c; 3 for 25c.

**GYPSOPHILA (Baby's Breath).** Graceful for hedges and border work. **Paniculata.** 2 ft. July-August. Small flowers on branched stems so thick as to give the plant a lace-like effect. Seed pkt., 8c; plants, 20c each.

**HOLLYHOCKS, MAMMOTH DOUBLE-FLOWERING.** We offer seven colors. Will bloom the first year. 25c each; 3 for 65c.

**HIBISCUS CRIMSON EYE.** Belongs to the family of mallows, flowers six inches across; color pure white with pronounced eye of deep crimson. 20c.

**HEMEROCALLIS FLAVA (The Lemon Lily).** This is entirely hardy and bears flowers of a lemon-yellow color. Very desirable. 15c.

**PYRETHRUM HYBRIDUM.** This is the Daisy-flowering Feverfew. 15c each; 3 for 40c.

**PLUMBAGO LARPENTAE, or LADY LARPENT.** Deep royal-blue flowers. This is an elegant plant. 15c each; 2 for 25c.

**RUDBECKIA LACINIATA (Golden Glow).** Grows 6 to 8 feet high, bearing hundreds of double yellow blossoms; very desirable. 10c each; 3 for 25c.

**STOKESIA CYANEA, or CORNFLOWER ASTER.** Grows eighteen to twenty-four inches high, flowers lavender-blue; four to five inches in diameter, borne from June to October. 15c each; 3 for 40c.

**LATHYRUS (Hardy Sweet Pea).** Showy free-flowering Hardy Perennial Climber for covering old stumps, fences, etc. Continually in bloom. Very fine for cutting.

**Latifolius Albus.** White. Plants, 15c each; postpaid.

**Pink Beauty.** Plants, 15c each; postpaid.

**Rubra.** Bright rosy crimson. Plants, 15c each; postpaid.

**PLATYCODON (Balloon Flower, or Japanese Bell-Flower.)** They form large clumps and are excellent for planting in permanent borders or among shrubbery. **Grandiflorum.** 2 to 3 ft. Large, handsome, deep blue flowers. Seed pkt., 8c; plants, 20c each.

**Grandiflorum Album.** Large pure white flowers, very attractive. Plants, 20c each.

**Double Blue and Double White.** These two varieties are among the newest acquisitions of the perennial border. Plants, 25c each.

**White Pearl.** New. Large sprays of the purest white flowers. Plants, 25c each.

## STANDARD LIST OF PHLOX

This is one of the most easily grown hardy perennials, and the large number of beautiful varieties now offered make it especially desirable. These noble flowers are not only beautiful as individuals but the cheerful appearance of our gardens during the summer and autumn months is much indebted to them.

Price, 20c each; any six for \$1.00; twelve for \$1.75.

**ALCESTE.** Deep violet, shading almost to blue.

**ATHIS.** Deep, clear salmon. Some claim this to be the showiest variety in cultivation.

**B. COMTE.** Brilliant French purple, with crimson-carmine shadings.

**BRIDESMAID.** Pure white, clear carmine eye; blooms in large, round heads; attractive.

**CONSUL H. FROST.** Deep rose color; large white eye. **COQUELICOT.** The finest and brightest red of all the Phlox; the color is a bright orange-scarlet.

**ESCLARMONDE.** Clear rosy-lilac, deeper eye, exquisitely rayed and shaded.

**DUGUESCLIN.** Rosy-lilac, distinctly rayed with lighter halo.

**GENERAL VON HEUTZE.** Immense trusses of very large flowers; color of the most brilliant salmon-red, with white center; simply grand.

**HENRY MARCEL.** Dark violet-rose, white eye; distinct.

**HENRY MURGER.** Enormous pure white flowers, with

very large showy, deep carmine center; fine florets and trusses; extra.

**HUXLEY.** A rich lavender; color fine.

**INDEPENDENCE.** An excellent large-flowering early pure white; none better.

**JULES CAMBON.** Clear magenta with large distinct white star in center of each floret; rich and fine.

**KOSSUTH.** Rich deep purple. Extra fine.

**LE MAHDI.** Dark violet-purple.

**L'ESPERANCE.** Clear rosy-lilac; large white eye distinctly rayed; large florets; an even bloomer.

**LOTHAIR.** Clear, even carmine, deep crimson eye.

**MADAME P. LANGIER.** Clear crimson, deeper eye; considered one of the best.

**MISS LINGARD.** Pearly-white flower, with a very faint pink eye; very remarkable bloomer, producing two to three crops of flowers during the season.

**R. P. STRUTHERS.** The very best Phlox grown today. Color clear cherry-red suffused with salmon shades; deep red eye; fine large truss.

## Perennial Plants—Continued

**POPPY (Oriental).** 2 to 3 feet. For gorgeous coloring the Oriental Poppies have few rivals among the hardy plants. The flowers are immense and often measure 6 inches or more across. Color from light salmon to dark maroon. Seed pkt. 8c; plants, 25c each.

**Iceland Poppy.** Mixed seed. Pkt., 8c.

**RUDBECKIA (Corn Flower).** Somewhat resembling the Perennial Sunflower but having a more graceful and refined flower. It is a valuable ornamental, late summer and autumn flowering plant, and very valuable for cutting.

**Laciniata, fl. pl. (Golden Glow).** A well known, popular plant of strong, robust growth. 15c each; postpaid.

**Purpurea. (Giant Purple Cone Flower.)** A most interesting hardy perennial, producing all summer large, showy reddish-purple flowers about 4 inches across with remarkably large cone-shaped center of brown; thick set with golden tips of spiral lines. Makes a fine cut flower. Hardy as an oak. 30c each; postpaid.

**PYRETHRUM.** One of the most valuable of our summer flowers. It has charming shades of color and wonderful lasting properties as a cut flower. They flower in May and June and frequently in August and September. Price, 30c each; postpaid.

**Uliginosum Stellatum.** 3 to 4 ft. Very large giant daisy-like flowers in great profusion. The flowers are a glistening white with dark disk and most excellent for cutting. Blooming from August to September. Plants 20c each.

**Double Mixed.** Extra choice double flowering variety. Selected and grown from the finest hybrids. Plants, 25c each.

**Roscum Hybridum (Single Mixed.)** Grown from a choice strain of seed from the originators of new varieties. Seed pkt. 8c; plants, 20c each.

**SWEET WILLIAM (See Dianthus Barbatus),** page 56.

**TRITOMA (Torch Lily or Red Hot Poker.)** A handsome, showy border plant. Flowers borne in compact form on stout 3 to 4 foot stems, having the appearance at a distance of orange and colored spear heads. Requires protection during winter unless in very sheltered position. A good plan is to take up the roots and store them in the basement during the winter. This flower is a rare beauty and will greatly repay you for what little trouble it may cause.

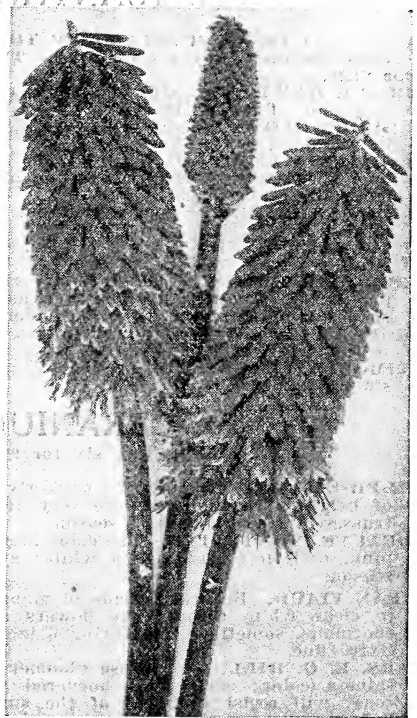
**Grandiflora.** New Mixed Hybrids. Large plants, 25c each; postpaid.

**MATRICARIA (Feverfew).**

**Little Gem.** 1½ to 2 ft. A most useful summer-cutting flower with very double white flowers from June to October. Seed pkt. 8c; plants, 20c each.

**MYOSOTIS (Forget-Me-Not).** It flourishes best in a moist, shady situation. Bright blue. Seed pkt., 8c; plants, 20c each.

**PINKS (See Dianthus)** page 80.



Tritoma

## IRIS

**NOTE**—For convenience we will use "S" to indicate standards or upright petals of the flowers, and "F" the falls or drooping petals.

**AGNES. S.** White frilled with shaded lilac; F. white traced with lilac at the base or claw. A very beautiful variety. 20c each; postpaid.

**BLACK KNIGHT.** A rare and beautiful new Iris. S. Intense deep violet blue. F. Velvety purple, exceedingly rich and striking. Very late bloomer, scarce. \$1.00 each; postpaid.

**DELMATICA. S.** Fine lavender. F. Clear deep lavender. Flowers very large and extra fine. A superb variety for planting in masses and for cut flowers. The true type is scarce. 50c each; postpaid.

**HONORABILIS. S.** Golden. F. Rich maroon brown and very effective. 20c each; postpaid.

**QUEEN OF MAY.** A lovely shade of rosy pink, tinted with violet. 20c each; postpaid.

**IRIS KAEMPFERI (Japanese Iris).** These magnificent iris are among the most beautiful of all our summer flowering plants. The flowers rival orchids, some measuring 10 to 12 inches in diameter. Unnamed varieties 20c each; 90c half doz. Very choice named varieties in every color. 35c each; postpaid.

**QUEEN EMMA.** Pure white, faintly flushed blue, long tapering stem, and very long falls. Possesses a pleasing fragrance. 25c each; postpaid.

## PEONIES--Hardy Everywhere.

### "ARISTOCRAT OF FLOWERS"

The wonderful improvement made during recent years in these old-fashioned hardy plants has brought them into renewed popularity. The gorgeous flowers, which rival the finest Roses in size, form and color are produced in great abundance.

**ANEMONEA FLORA RUBRA.** Good size, deep brilliant rose, carpels dark crimson; strong grower, tall free bloomer. 60c each; postpaid.

**ANDRE LAURIES.** Light red, prolific and beautiful. 50c each; postpaid.

**FESTIVA MAXIMA.** This is not only the finest white in existence, but may be regarded as the queen of all the peonies. A grand cut flower variety, coming in bloom usually for Decoration Day. 60c each; postpaid.

**FELIX CROUSSE.** Large globular brilliant red flowers. A strong, vigorous grower of medium height. One of the best varieties. 75c each; postpaid.

**GOLDEN HARVEST.** A most striking variety, producing large, tri-colored blooms. The guard petals are bluish pink with creamy white center. It combines cream, gold, white, pink, salmon, peach and apricot.

The total color effect of the flower being creamy-pink; strong, delicate fragrance. 60c each; postpaid.

**HUMEL.** Immense late cinnamon scented flower of varnished pink. 50c each; postpaid.

**LA SUBLIME.** A very striking flower of deep, rich crimson color. A sure bloomer. 50c each; postpaid.

**MONSIEUR JULES ELIE.** Very large, compact, high crown, pale lilac-rose color shading amber; yellow at the base. Very fragrant. Strong grower, early flowering, extra fine variety. \$1.00 each; postpaid.

**MONSIEUR KRELAGE.** Large, compact semi-rose type; dark salferino red with silvery tips. Free bloomer. Late. 75c each; postpaid.

**PRESIDENT ROOSEVELT.** Very large, robust flowering. Dark red; one of the finest of its color. 75c each; postpaid.

# Bedding and House Plants

## CHRYSANTHEMUMS

**CAN BE SUPPLIED UP TO ABOUT JUNE 1**  
Price 20c each; any six for \$1.00. The entire eight listed below for \$1.20.

**BLACK HAWK.** An extra fine deep, crimson variety of the largest size; none finer of its color.

**GOLDEN GLOW.** Bright yellow of velvet finish. Flower 5½ inches in diameter.

**GOLDEN WEDDING.** Nothing finer among yellows; shines like burnished gold. The standard for measuring yellows; of mammoth size.

**JOHN SHRIMPTON.** A rich red that has many admirers; of the largest size. Extra.

**LAVENDER QUEEN.** A lovely shade of pinkish lilac. Very desirable.

**PERCY PLUMRIDGE.** This grand variety has literally leaped into popularity. Flowers are so large as to startle you. The color shades from a few rows of lavender pearl to the richest pink.

**ROBERT HALLIDAY.** Flowers of mammoth size and deep golden yellow; really a wonder.

**TIMOTHY EATON.** The largest and grandest of all white mums; simply immense.

## GERANIUMS

20c each; any six for 90c; postpaid.

**ALPHONSE RICARD.** Large, perfectly formed semi-double flowers of bright vermillion-red, are very freely produced in enormous trusses during the entire season.

**BEAUTE PONTEVINE.** The color is a beautiful shade of shrimp-pink, delicately shading to white; a most profuse bloomer the season.

**JEAN VIAUD.** Beautiful shade of mauve-pink, shading to clear white throat; the flowers and trusses are enormous, sometimes measuring 6 inches in diameter. Extra fine.

**MRS. E. G. HILL.** A profuse bloomer of a soft, light salmon color; each petal bordered with a salmon-rose; will resist the heat of the sun; excellent for bedding.

**LA FAVORITE.** Flowers purest white; very free flowering; always a perfect mass of white; an old favorite. double flower of deep pure pink color, of dwarf and branching habit. A perfect bedder and pot variety.

**S. A. NUTT.** This is more generally used as a pot plant and for bedding than any other variety. The color is a handsome dark velvety scarlet with maroon shadings. A vigorous grower.

**SWEET-SCENTED GERANIUMS**  
15c each; 3 for 40c; postpaid

**LEMON.** The foliage is pronouncedly lemon-scented.

**NUTMEG.** Foliage has true nutmeg fragrance.

**ROSE.** The famous sweet rose-scented Geranium; very fragrant.

## MONTHLY CARNATIONS

"THE DIVINE FLOWER"

Price, except Nebraska, 20c; each; any 3 of your selection for 40c.

**BENORA.** The ground color is the faintest blush, lightly penciled in soft pink. The bloom is fluffy in appearance, exquisitely beautiful in form. One of the grandest of all Carnations.

**CHAMPION.** By far the darkest Carnation ever seen, at the same time the most abundant bloomer, dark red, shaded with richest maroon, fringed petals, nearly all flowers being on a long stem. Surpasses in richness of color the most perfect Jacqueminot Rose.

**MATCHLESS.** Largest flowers of the purest immaculate white; large sized blooms. Valuable for garden planting and for pot culture. Very sweetly scented with delightful clove fragrance.

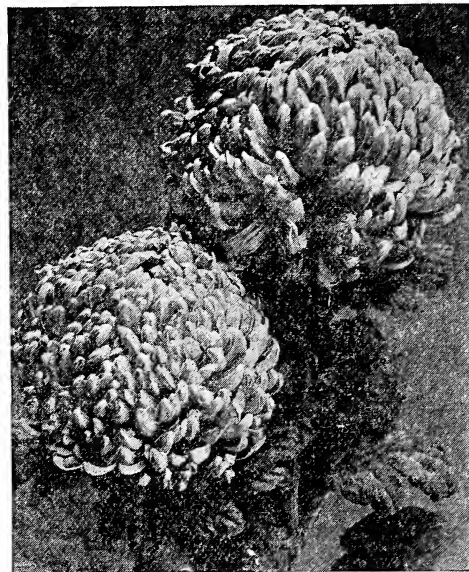
**SENSATION.** Certainly a grand pink Carnation of the largest size and deliciously scented.

**NEBRASKA.** This flower has caused a sensation among Carnation growers. It is the best red Carnation in existence. Monster flowers of the best and most lasting shade of beautiful, bright, crimson-scarlet. Every flower is perfect. Is the finest bloomer of any of the Carnations. Price, 35c each; 3 for 90c; postpaid.

## COLEUS

**GENERAL ASSORTMENT.** We have a collection of 30 kinds of the most distinct sorts. Leave the selection of varieties to us, as it is hard to describe the various tints. 15c each; and 4 for 45c; any 12 for \$1.00; 25 distinct varieties for \$2.00; postpaid.

These are good bedders, standing the hot sun without losing their color. Price of Coleus by the hundred when sent by express, \$3.50, you to pay the expressage.



Chrysanthemums

## FLOWERING BEGONIAS

**ARGENTEA GUTTATA.** A handsome variety, foliage oblong, purplish bronze, marked with silvery gray spots and dashes. Flowers borne in large clusters, and of pure, waxy whiteness. 25c each; postpaid.

**GRACILIS LUMINOSA.** Magnificent new specimen; exceptionally sturdy and vigorous; unquestionably one of the choicest bedding sorts. Flowers are large, perfect, plentiful and never out of bloom. Color the brightest scarlet. 25c each; postpaid.

**SANDERSONII.** (Coral Begonia.) Flowers bright scarlet. Almost always in bloom summer and winter. Excellent for vases, etc. 25c each; postpaid.

**THURSTONII.** Beautiful, stately plant; glossy foliage. Under side of leaves, purplish red; veinings very prominent. Upper side, bronzy green, shaded with crimson and olive, with glossy metallic lustre over all. Flowers beautiful shell-pink. 25c each; postpaid.

## FUCHSIAS

"LADIES' EARDROPS"

Price, 20c each; the set of 4 for 70c

**BLACK PRINCE.** This is, without question, the very finest Fuchsia grown for the amateur to cultivate. It makes a shapely bush, is robust in growth, free from disease and insects, and is probably the freest in blooming. Carmine or pink color.

**ENFANT PRODIGY.** A grand Fuchsia; bright red sepals, deep purple corolla.

**MONTROSA.** Of the largest size; scarlet sepals, double snow-white corolla.

**SPECIOSA.** Habit erect and compact, presenting a decidedly neat and attractive appearance as a pot plant. The fine star-shaped flowers are produced in profusion, and begin when plants are quite young; tube and sepals bright rose, corolla brilliant carmine.

## TENDER VINES AND CLIMBERS

**THE WONDERFUL GIANT MOONFLOWER.** (Ipomea Maxima). A giant in growth and flower, and wonderfully fragrant. This grand new Moonflower is a decided improvement over the old well-known variety, Ipomea Grandiflora. The flowers are more than twice the size, oftentimes measuring from 6 to 7½ inches across. Its growth is very rapid when planted in good rich soil. Fine plants, 15c each.

**GERMAN or PARLOR IVY.** A rapid-growing plant, well adapted for training in the parlor. Leaves glossy green and flowers yellow, in clusters. 15c each.

**SMILAX.** A lovely house vine. 15c each.

**TRADESCANTIA.** (Wandering Jew.) Fine for baskets. Two distinct kinds. 15c each.

**VINCA MAJOR VARIEGATA.** Fine for baskets and vases; green and white foliage. 15c each; large strong plants, 25c each.

## FERNS

**OSTRICH PLUME FERN** (*Nephrolepis Whitmanii*). Thrives perfectly in the warm atmosphere of living rooms. Combines graceful pluminess and charm with additional features of good shape, size and growth.

**BOSTON SWORD FERN** (*Nephrolepis Bostoniensis*). This Fern has proven to be a most popular decorative plant. It is a rapid grower of very easy culture, soon forming a large, graceful plant.

**THE ROOSEVELT FERN** (*Nephrolepis Roosevelt*). In general characteristics it resembles the world-famous Boston Fern but it produces many more fronds than the Boston, thus making a bushier, handsomer plant in a 6-inch pot than any other Fern in a 10-inch pot.

**TEDDY JUNIOR.** The fern for every household. It is a sport from the now famous Roosevelt Fern, and while its habits of growth is to produce a shorter frond it retains all the valuable characteristics of the parent plant. The fronds are broad and beautifully tapered from base to tip.

**ASPARAGUS PLUMOSA** (Climbing Lace Fern.) Easily grown and very satisfactory for window and house culture; an extremely graceful window climber, bright green feathery foliage, as fine as the finest silk or lace.

**ASPARAGUS SPRINGERII** (Emerald Feather Asparagus.) It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green feathery foliage.

**BABY'S BREATH FERN** (*Nephrolepis Goodii*). This has the finest foliage of all the ferns. It is so delicate and dainty in texture that baby's breath will set its fluffy foliage in motion.

**FISH TAIL FERN** (*Nephrolepis Davallioides Furcans*). This is a grand fern entirely distinct from any of the other varieties of *Nephrolepis*.

**DWARF FERNS FOR FERN DISHES.** We have selected a few of the hardiest and most satisfactory varieties for filling fern dishes of which there is no prettier table decorations.

Price. Dwarf Ferns each 25c. Your choice any 3 65c; 6 for \$1.20. Large size each 65c.

## DWARF LANTANAS

Price, 15 cents each; the seven for 90 cents.

**ALBA PERFECTA.** Pure white.

**COUNTESS DE BIEN COURT.** Clear bright pink.

**VERSICOLOR.** Crimson fine.

**HARKETT'S PERFECTION.** Variegated foliage; cream and pink flowers.

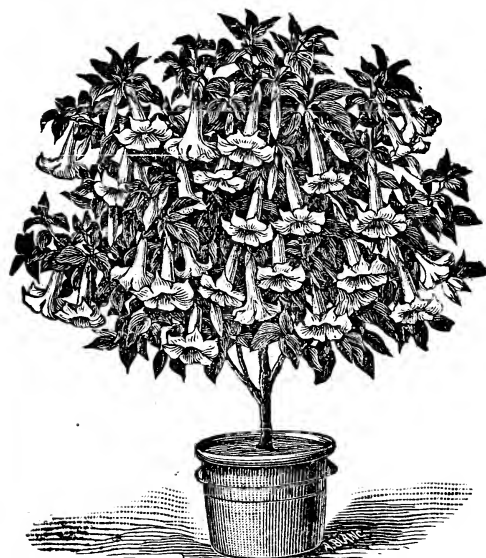
**JAUNE d'OR.** Cream and orange.

**LEO DEX.** Rich red.

**M. SCHMIDT.** Orange scarlet.

**WEEPING LANTANA** (A Weeping Plant of Great Beauty). One of the grandest basket plants grown.

Price, 15 cents each.



Angel's Trumpet



Ostrich Plume Fern

## OLEANDERS

These shrubs are becoming immensely popular again. We are growing and selling them by thousands. No plant makes more handsome specimens in tubs for the veranda or yards. Can be wintered in the cellar. We have four colors.

**LUTEA.** Has double primrose-yellow. Scarce. 20c each.

**ROSEA.** Has double pink flowers. 20c each.

**LILIAN HENDERSON.** Has double white flowers. 20c each.

**VARIEGATED.** Has variegated foliage. 20c each.

**THE FOUR DIFFERENT COLORS FOR 70 CENTS.**

## CANNA

The most popular decorative plant of the day. The earth should be spaded deeply and well enriched. After planting water sparingly until the plants have taken root and show good leaf growth.

**ALLEMANIA.** Grand color yellow, heavily dotted and overlaid with blood-orange. 5 feet.

**FREDERICK BENARY.** Immense flowers; currant-red, bordered yellow, and pronounced orange throat. 5 feet.

**INDIANA.** Glistening golden-orange, lightened by flecks of old gold and daintily flecked and pencilled with deep rose. Single blossoms often seven inches across. 5½ feet.

**FLORENCE VAUGHAN.** Pure yellow dotted with red. 5 feet.

**KING HUMBERT.** Giant flowered; orange scarlet; bronze leaf. 4 feet.

**PENNSYLVANIA.** Intense vermilion-scarlet or pure red. The flowers are immense, often seven inches across. 5½ feet.

**UNCLE SAM.** The most stately of all Cannas; bears three or four enormous bunches of brilliant orange-scarlet flowers on each stalk.

**FIREBIRD.** This is by all means the best red flowered, green leaved canna today.

**DAVID HARM.** Bronze foliage, bright vermilion-scarlet, mottled with deep red, and with crinkly-edged petals. 3½ feet.

**PRICES ON ALL CANNAS EXCEPT FIREBIRD**

Dormant Roots, 10c each; \$1.00 per doz.; postpaid. By express, per doz., 75c; per 100, \$6.00.

Started Plants ready May 10th, 15c each; per doz., \$1.50; postpaid. By express, per doz., \$1.25; per 100, \$7.00.

## Brugmansia

**OR ANGEL'S TRUMPET**

It grows easily, blooms freely indoors in winter and in the garden in summer. Has large, tropical leaves, with blooms eight inches long by six inches wide at the mouth, resembling a trumpet. Pure white in color and as fragrant as a Jasmine. Blooming plants, 35c each.

## Peperomia Muscosa or Watermelon Begonia

A most beautiful plant for pot culture, easy to grow, and thrives anywhere; leaves deep olive-green, marked with silvery-white. Thick and waxy-like; leaves variegated white and green. Price, 10c each.

## Leopard Plant

**FARFUGIUM GRANDE**

A decidedly striking and effective plant. Also known as the Leopard Geranium. Fine for house culture; easy to grow. Also fine out of doors, hardy as far north as Tennessee. The leaves are ten to twelve inches across and are distinctly marked with creamy white and yellow spots. Price, 20c each.

## Summer Flowering Bulbs

...Plant in deep, rich soil, when the ground becomes warm. For earliest flowering the tender bulbs may be started in the house. For succession of bloom, plant up to June 1st. After fall frost, lift the bulbs, let them dry, and then removing the tops, store in a cool, dry place, away from frost, planting early in the spring.

**CALADIUM ESCULENTUM. (Elephant's Ear).** Fine tropical plant, bearing immense leaves. Start as directed for cannas, when growing you cannot make the soil too rich or keep it too wet. 15c each; 2 for 25c; postpaid.

**KUDZU VINE (Jack-and-the-Bean-Stalk.)** A most remarkable hardy climber. Starts slow but in a few weeks grows almost beyond belief. Foliage dark green. Fine for porches and arbors. **Roots, small, 13c each; 3 for 40c; postpaid. Large roots, 25c each; by express.**

**MADERIA VINE.** A rapid climber, twining to great heights. Thick, glossy leaves and feathery, very fragrant flowers. It grows anywhere, but does better in a warm, sunny location. It is also very pretty for training in the house. **Strong tubers, 5c each; 3 for 10c; per dozen, 35c; postpaid.**

**HEDYCHUM (Butterfly Lily).** Grows best on low, damp ground. Are much like Cannas, but the leaves are narrower and the flowers are produced from a close head. Blooms about 4 o'clock in the afternoon. **Price, 10c each; 40c per dozen.**

**TRINIDAD DASHEEN.** The Trinidad Dasheen belongs to the same family as the well known Elephant Ear of Calladium Esculentum so often grown all over the country for ornamental use in our gardens and somewhat resemble them but grow more upright, leaf is rounder and of a much darker green in color. They like an abundance of water and will thrive where it is too dry for the common Elephant Ear. The shoots in early spring are often cooked like asparagus and make an excellent substitute for that vegetable. The tubers are much richer in food values than either Irish or Sweet Potatoes and are cooked in various ways. **Price, small size, 10c each; large size, 20c each; postpaid. By express, small size, \$6.00 per 100; large size, \$15.00 per 100.**

**TUBEROSE.** A beautiful white wax-like, very sweet-scented double flower growing on tall stems. 5c each; 40c per dozen postpaid.

### DAHLIAS

Large, symmetrical double flowers having broad petals, incurving at the center. Blooms from August to freezing weather.

**FRANK L. BASSETT.** Color bright royal purple, shading to lavender-blue, an extremely early and profuse bloomer.

**GOLDEN WEDDING.** A giant flower. A deep golden-yellow, the same as found in the Golden Wedding Chrysanthemum. A gorgeous variety for the garden or for cut flowers. 35 cents.

**JACK ROSE.** In color it resembles the Jacqueminot rose. Profuse bloomer and splendid for cutting purposes.

**SYLVIA.** A beautiful deep pink, shading lighter to the center.

**A. D. LIVONI.** Rich pink, finely formed; a very handsome flower.

**ARABELLA.** Very large and beautiful. Color soft primrose shaded with rose.

**QUEEN VICTORIA.** Large, rich golden yellow.

**RED HUSSAR.** Richest cardinal red, with long stems. Splendid for cutting.

**MIXED DAHLIAS.** Including some of the above varieties. 20c each; per dozen, \$2.00; postpaid.

**DAHLIA SEED.** Single or double. Pkt., 8c; postpaid. Price of all Dahlias, except where noted, 30c each; \$3.00 per doz.; postpaid. By express, \$2.50 per dozen.

### GLADIOLI

This is one of the best summer-flowering bulbs. It is a flower anyone can grow and is lovely enough to satisfy the most exacting. The flowering season may be continued by planting from the middle of April to the first of June. Set the bulbs 6 inches apart, and 2 to 4 inches deep.

**AUGUSTA.** Lovely pure white, blue anthers. 7c each; 40c dozen; postpaid.

**AMERICA.** The finest pink Gladiolus yet introduced; especially valuable to florists, spikes 2 and 3 feet long; flowers are large, open and spreading. Color delicate lavender pink. 7c each; 50c dozen; postpaid.

**BARON HULOT.** Dark purplish violet. 7c each; 60c per dozen.

**BRENCHLEYENSIS.** Intense fiery scarlet. 7c each; 50c per dozen; postpaid.

**MRS. FRANCES KING.** Bright "Flamingo" pink, strikingly attractive. Flowers 4 to 5 inches across are borne on stalks 5 feet high. 7c each; 60c per dozen; postpaid.

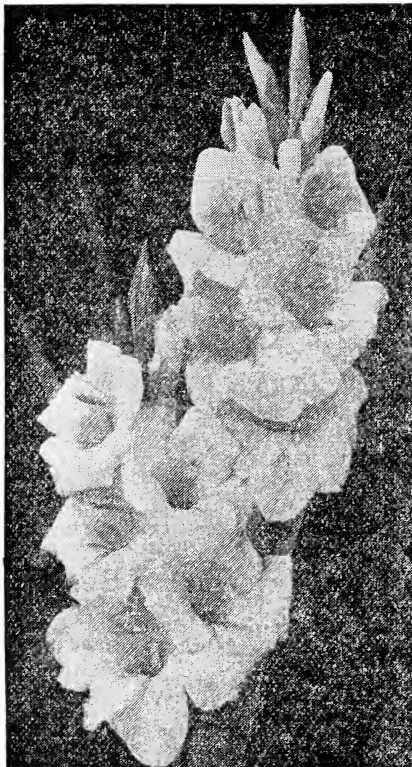
**SCARDALE or PINK BEAUTY.** A beautiful deep pink variety, very early. One of the best. 7c each; 60c per dozen; postpaid.

**NIAGARA.** The best yellow. 10c each; \$1.00 per dozen; postpaid.

**GROFF'S HYBRIDS.** The size and beautiful shadings of this strain give the greatest possible range of varieties. 7c each; 50c per dozen; postpaid.

**GRISWOLD'S FINE MIXED.** All colors and varieties. Every one a beauty. 5c each; 40c per dozen; postpaid.

**GOOD MIXED.** Especially recommended to make a good brilliant show in the garden for a small outlay. All bloomers. 4c each; 4 for 15c; 35c per dozen; postpaid. 50 for 80c; 100 for \$1.50; by express at buyer's risk.



### BEE SUPPLIES

You will find a full list of BEE SUPPLIES on pages 67 to 73. We handle the A. I. Root goods, which we consider the best on the market in point of workmanship and material used. There is a good profit in Bees.

Remember, Small Orders receive the same careful attention as large ones.

## Hardy Lilies

With the exception of Lily Candidum, which seems to prefer an open position, most lilies thrive best when planted in a semi-shaded position where the ground can be kept cool and moist by the protection of shrubs and a carpet of lawn grass. Planted among shallow-rooting perennials they find a congenial setting both as to soil and shelter. The bulbs should be planted from 6 to 8 inches deep with a little sand or moss under the base of each bulb. Candidum Superbum and Tigrinum we can supply early from home-grown stock. The varieties coming from Japan we can seldom supply until the end of November, but can ship immediately upon their arrival here.

**LILIUM CANADENSE.** Wild yellow lily. Flowers vary in color—red and yellow. Grows 2 to 5 feet high and is a most hardy species. Nice to plant among shrubbery and does quite well in shade. June and July. 15c each; \$1.50 doz.; postpaid.

**LILIUM LONGIFLORUM.** Pure white, trumpet-shaped, flowers in June or July, very hardy. Can also be grown as a pot plant. Bulbs 25c each; \$2.50 doz.; postpaid.

**LILIUM SPECIOSUM MELPOMENE.** Words cannot describe the beauty of this variety. Frosted white, spotted, clouded, and bordered with pinkish crimson. Petals deeply recurved and widely bordered. 35c each; \$3.50 doz.; postpaid.

**LILIUM SPECIOSUM MAGNIFICUM.** Rich Crimson. The finest colored of all Speciosums. 25c each; \$2.50 doz.; postpaid.

**AURATUM.** (Gold Banded Lily.) Very large, white spotted crimson with broad yellow bands. 20c each; postpaid.

**CANDIDUM.** One of the best hardy lilies. Flowers pure white, large and of delightful fragrance. Blooms in June. 15c each; postpaid.

**ELEGANS.** Perfectly hardy and will succeed in most any position. Flowers large and showy, bright red, flushed orange. 1½ feet high. Blooms in June and July. 15c each; postpaid.

**LILY OF THE VALLEY.** Bearing slender stems set with tiny white bells, delightfully fragrant, do well in shady situations. Flower each season without any attention. 6c each; 3 for 15c; 40c per dozen; postpaid.

**SPECIOSUM RUBRUM.** White, beautifully spotted with red; very fragrant; flowers in August. This is one of the most useful lilies; perfectly hardy and flowering well under all conditions. 20c each; postpaid.

**SPECIOSUM ALBUM.** Same as the above but pure white. 25c each; postpaid.

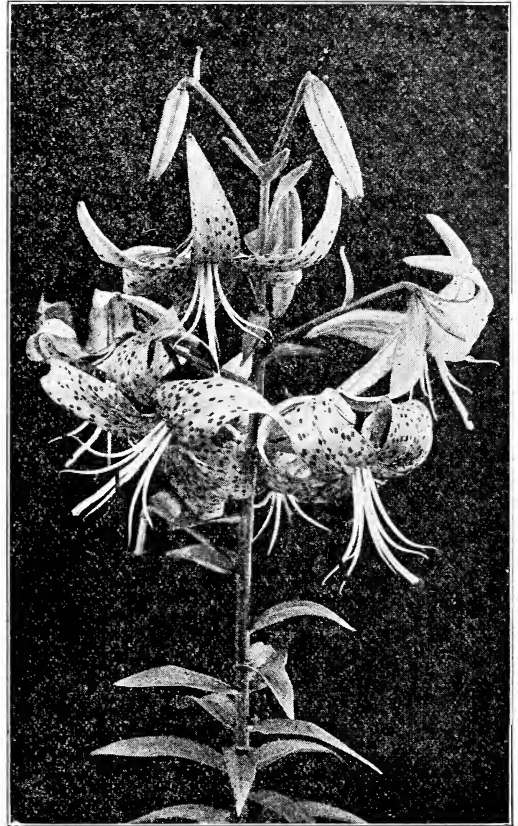
**SUPERBUM.** Flowers bright orange-red, thickly spotted with purple. Remarkable for immense height (often 8 feet) and profusion of bloom; a strong plant, bearing from 20 to 30 flowers. Blooms in July. 15c each; postpaid.

**TENUIFOLIUM.** Vivid scarlet with reflexed petals. Very easy culture. 15c each; postpaid.

**TIGRINUM SPLENDONS.** The well known "Tiger Lily," grows from 4 to 5 feet high and bears an immense number of bright orange flowers spotted with black. Blooms in August. 15c each; postpaid.

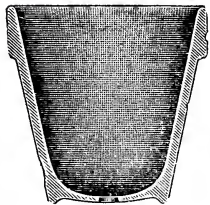
**TIGRINUM.** fl. pl. A variety of the Tiger Lily with double flowers. 15c each; postpaid.

**WALLACEI.** Flowers rich, clear buff, spotted black, late bloomer. 15c each; postpaid.



STANDARD SAUCERS

|             | Each   | Doz.   | 100    |
|-------------|--------|--------|--------|
| 3 in. ....  | \$0.03 | \$0.25 | \$2.00 |
| 4 in. ....  | .04    | .30    | 2.25   |
| 5 in. ....  | .05    | .50    | 3.00   |
| 6 in. ....  | .07    | .75    | 4.00   |
| 7 in. ....  | .08    | .90    | 4.50   |
| 8 in. ....  | .10    | 1.15   | 6.50   |
| 9 in. ....  | .12    | 1.40   | 8.50   |
| 10 in. .... | .17    | 1.80   | 12.00  |
| 12 in. .... | .30    | 3.00   | 20.00  |



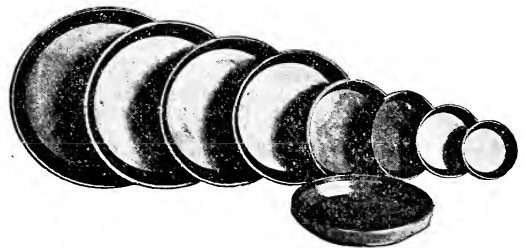
FLOWER POTS

|                          | Weight | Each   | Doz.   | 100    |
|--------------------------|--------|--------|--------|--------|
| 2 in. 1½ lbs. doz. ....  |        | \$0.03 | \$0.20 | \$1.25 |
| 3 in. 5 lbs. doz. ....   |        | .04    | .30    | 1.50   |
| 4 in. 1 lb. each. ....   |        | .05    | .50    | 3.00   |
| 5 in. 2 lbs. each. ....  |        | .07    | .75    | 5.00   |
| 6 in. 3 lbs. each. ....  |        | .10    | 1.00   | 6.00   |
| 8 in. 4 lbs. each. ....  |        | .12    | 1.40   | 10.00  |
| 8 in. 5½ lbs. each. .... |        | .18    | 2.00   | 15.00  |
| 9 in. ....               |        | .25    | 20.00  |        |

STANDARD FLOWER POTS AND SAUCERS

Sent by Express or Freight

We pack these carefully, but will not be responsible for breakage in transit.



### FALL BULBS

In September of each year we import from Holland a large shipment of Fall Bulbs. These should be planted any time from the middle of September until the ground freezes. This list includes bulbs for outdoor planting and for planting in the house. Write for our illustrated Bulb Catalog.

### BEE SUPPLIES

You will find a full list of BEE SUPPLIES on pages 67-73. We handle the A. I. Root goods, which we consider the best on the market in point of workmanship and material used. There is a good profit in Bees.

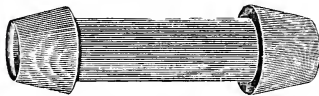
**Our Fall Bulb Catalog Will be Ready About Aug. 1st. Write for it.**

## Lawn Supplies



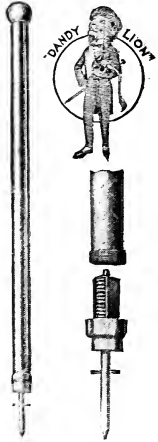
### BUSY

As the name implies, is always busy. Top, galvanized iron, base steel. Price, postpaid, \$1.50; not postpaid, \$1.25.



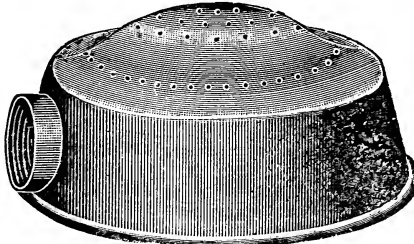
### WOODEN HOSE MENDERS

$\frac{1}{2}$ -in. and  $\frac{3}{4}$ -in. only.  
Price, per doz.  $\frac{1}{2}$ -in. 30c  
Postpaid.  
Price, per doz.  $\frac{3}{4}$ -in. 35c  
Postpaid.



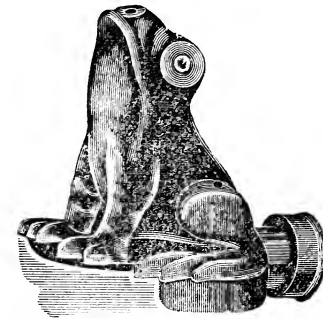
### THE IDEAL DANDELION KILLER

This new Dandelion Killer is a tube 1 inch in diameter and 38 inches long. It has a screw cap at the bottom for filling and a valve which lets out about one teaspoonful of liquid to each plant. Simply fill the tube with gasoline and you can kill the dandelions as fast as you can walk around over the lawn. Price, postpaid, \$1.25; not postpaid, \$1.10.



### BABY RING

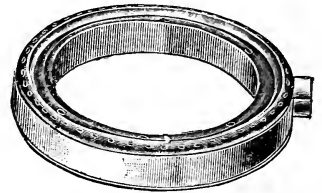
As gentle and even as the rain drops. Top made of brass; bottom heavy galvanized iron. Price, postpaid, 80c; not postpaid, 65c.



### THE "FROG" SPRINKLER

The Frog Sprinkler is a novelty which we have just added to our line. It is a one-piece iron sprinkler. It throws a generous, finely distributed spray and, having no loose parts, it cannot get out of order.

The Frog is painted green with gilded eyes and is attractive on any lawn. It stands 4 $\frac{1}{2}$  inches high on a sled allowing it to be dragged over the ground without tipping over. Price, \$1.10, postpaid; \$1.00, not postpaid.



### THE RING LAWN SPRINKLER

One of the Really Good things. Made entirely of brass. No moving parts. Nothing to get out of order. More beautiful than a fountain; more efficient than a shower. Price, postpaid, \$1.15; not postpaid, \$1.00.



### GALVANIZED STEEL HOSE CLAMPS

Galvanized Steel Hose Clamps are made of heavy sheet steel, and galvanized by a superior process which effectually prevents rust within a reasonable length of time.

They are strong and serviceable and have lugs which engage the vise jaws, making it an easy matter to tighten the clamp onto the hose. Price 7c each; 65c per dozen; postpaid.

## Beautiful Lawns

A rich velvety lawn with a background of Beautiful Ornamental Shrubs enhances the value of a home and gives to it the natural artistic setting that we so much admire.

**TO MAKE A GOOD LAWN.** Nothing is more easily made and kept in order by a little well directed care. To get grass seed up quickly and evenly the surface must be mellow and level with at least six inches of good black soil. Sow one pound of Griswold Special Lawn Mixture to every 400 square feet and rake the seed in and roll well, or use a wide board until soil is uniformly firm.

### LINCOLN BRAND LAWN GRASS MIXTURE

A mixture adapted to our hot, dry climate. It is composed of Blue Grass, White Clover, and several other best lawn grasses. Some of these come early, some grow best during the summer, some grow well in the shade while others make their growth in the fall. In this way one has green grass the whole season. One pound covers 400 square feet (a space 20x20 feet) for new lawns, and half this amount for re-seeding old ones. Per lb., 60c; 5 lbs., \$2.50; postpaid. By freight, 1 lb., 50c; 5 lbs., \$2.25.

### FANCY KENTUCKY BLUE GRASS

Best grade of fancy, clean, new crop tested seed. Per lb., 40c; 5 lbs., \$1.75; postpaid. By freight, 1 lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.85.

### WHITE CLOVER

This is just the seed to sow on the bare spots in your yard or lawn where a very quick green covering is desired as it will cover better in ten days' time than grass seed will cover in two months. 85c per lb.; postpaid. By express or freight, 75c per lb.; 5 lbs., \$3.50; 10 lbs., \$6.50.

### FULLY GUARANTEED LAWN HOSE



#### Testoide Non-Kinkable Hose

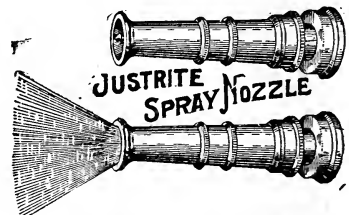
Light—Strong—Flexible

An indestructible moulded hose for Lawn, Greenhouse, Stable, Garage. Of braided construction; cannot unwrap, kink or burst. Made in continuous lengths up to 500 feet, which gives you any length you want and avoids leaky couplings. Price,  $\frac{3}{4}$ -inch size, per ft. 22c.

#### REGULAR GUARANTEED HOSE

Will be replaced if not satisfactory

$\frac{5}{8}$ -inch Griswolds Lincoln Brand, 50 ft. \$6.00  
Braidoid Hose (indestructible) 22c per ft.

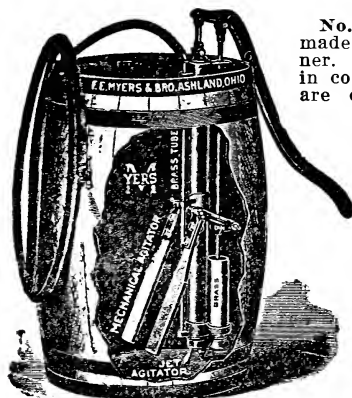


#### JUSTRITE NOZZLE

Regular Hose Nozzles. Price, postpaid, 80c; not postpaid, 75c.

Hose Gaskets (rubber washers) doz. 10c

## Sprayers

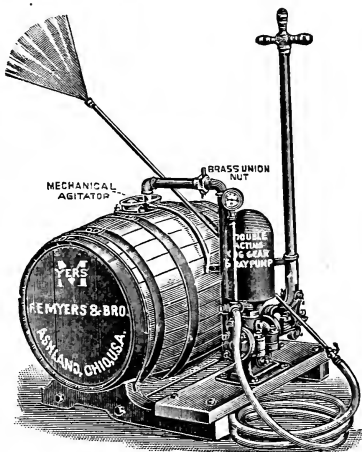


No. 305B. This pump is made in a first-class manner. All parts that come in contact with the liquid are of heavy brass. It can be easily and solidly bolted to any barrel. The air being compressed into the air chamber with a 2-inch all brass cylinder makes the spray continuous. A mechanical agitator and small jet of liquid from the pump keeps the ingredients thoroughly agitated. It sprays whitewash, kalsomine, water, paints and any other liquid. Fitted

with 15 feet of best 5-ply rubber hose, and graduated Vermorel nozzle complete as cut (except barrel). Price, \$18.50.

### MYER'S DUPLEX BACK GEARED DOUBLE ACTING SPRAY PUMP

No. R-316. This pump is built especially for heavy work. The 2-inch cylinder is brass lined. The plunger is brass, hemp-packed, and piston rod is brass. You can use any material hot or cold. It is fitted with large air chamber pressure gauge, with 50 gal. bbl. mounted on skids with pressure gauge. One 15-foot lead of 1/2 inch 7-ply discharge hose, 1 Fembro Nozzle, one 8-foot pipe extension with lever shut-off, and mechanical agitator. Special features of this outfit are cog Gear Movement, Increased Leverage, Device for spraying under heavy pressure. Mounted complete, occupying smallest space. Capacity sufficient for eight nozzles. Well adapted for spraying potatoes or other vegetables in rows. Price, complete, \$60.00.



No. R-309. Same as R-316-B without barrel and skids. Price, complete, \$37.50.

### MYER'S KNAPSACK SPRAY PUMP



No. 330-P. The tank holds 5 gallons. The pump has a large air chamber, ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The pump can be removed easily. The pump is also fitted with handle, so the operator can set the knapsack on the ground and work as a bucket pump. The handle lever can be shifted from right to left shoulder at will. Price, \$18.00.

### EXTENSION PIPES

8-foot Iron Extension Pipe.....\$ .90  
8-foot Bamboo Extension Pipe, with cutoff..... 4.25

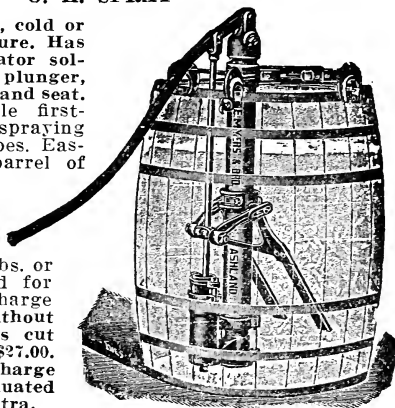
10-foot Bamboo Extension Pipe with cutoff.....\$5.00  
12-foot Bamboo Extension Pipe with cutoff..... 6.00

A SPECIAL PIPE to fit Nos. 27, 329, 307, and for Myer's Knapsack, for spraying under leaves of Musk Melons or Cucumber Vines, 50c each.

**SPRAYERS SHIPPED BY FREIGHT OR EXPRESS AT YOUR EXPENSE**

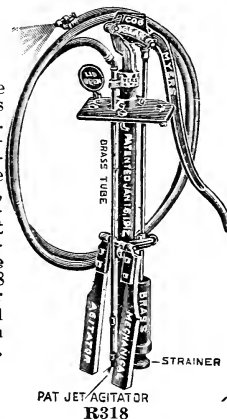
### O. K. SPRAY

No. 307. For hot, cold or any kind of mixture. Has a mechanical agitator solid brass ram plunger, round bevel valve and seat. A strictly reliable first-class pump for spraying orchards or potatoes. Easily adjusted to barrel of any size. Handle is of wrought steel, so as to enable the operator to get up a pressure of 200 lbs. or more. It is fitted for 2 strings of discharge hose. Price, without hose or nozzle, as cut (without barrel), \$27.00. Two 15-ft. discharge rose and 2 graduated nozzles, \$12.00 extra.



### COG GEAR BARREL SPRAY PUMP

No. R-318 has bronze ball valve and brass seats. The plunger is brass fitted with hemp packing. Will handle hot, cold or any caustic mixture. The cylinder discharge pipes are all brass. The air chamber is 32 inches in length, enabling the pipe to throw a uniform, constant elastic spray. It has good leverage, is very powerful and is easily operated. The malleable iron base fits an 8x8 inch hole. Price without hose or nozzle or barrel, \$16.00. Fitted with one lead of 15 ft. hose with graduating vermored nozzle, \$21.00.



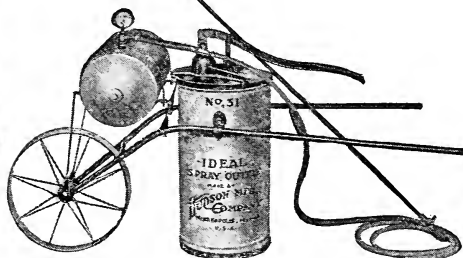
### LITTLE GIANT

No. 327 1/2. A Brass Spray Pump complete with agitator hose, fine and coarse spray and solid steam nozzle with malleable foot rest. Will throw a stream 50 feet. 28 inches high, made of 1 1/2-inch brass tubing. Price, \$6.25.

### NO. 31. IDEAL SPRAYER



No. 337 1/2



The original wheelbarrow spraying outfit. One of the most popular "one man" machines made.

The Ideal is well designed and built for durability and convenience of operation.

As light as possible and still allow ample strength in the completed machine. All working parts coming in contact with the liquid are made of brass.

We have this sprayer in two styles, No. 31 with air pressure tank, as shown in cut, and No. 30 without the tank. In using No. 31 you can pump up a pressure of 150 lbs. and the machine will operate about 5 minutes without further pumping. Price, No. 31, \$32.50; No. 30, \$25.00.

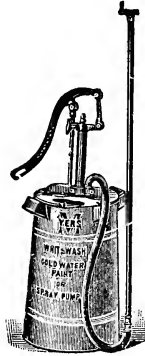
## Sprayers--Continued

### SPRAYER AND PAINT MACHINE

No. 329. Sprays whitewash, cold water, paints or any liquid. Galvanized tank holds 7 gallons. Pump is made of brass with brass ball valves and malleable handle. It has a patent double agitator and is a most complete and serviceable outfit. Price, \$16.50.

### SPRAY YOUR TREES

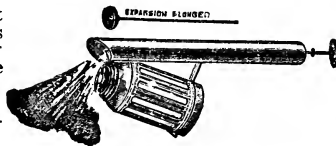
WRITE FOR COMPLETE SPRAY CATALOG OF SPRAYERS, SPRAY MIXTURES AND CALENDAR.



### EASY SPRAYER

This sprayer holds one gallon of liquid, is equipped with automatic shut-off lever nozzle, and made of heavy galvanized iron. Just as good as the larger sprayers only for size. Price, by express \$2.50.

No. 20. Tank consists of a Mason fruit jar. Its shape causes it to give a churning motion when in use thus keeping the ingredients thoroughly mixed. Price, by express, 75c.



### NO. 202 MIDGET JUNIOR



A small, well made sprayer for home use. Will handle all kinds of liquids perfectly. The pointed nose of the pump passing through the tank makes it a very strong sprayer. Price, 40c; postpaid, By express, 35c.

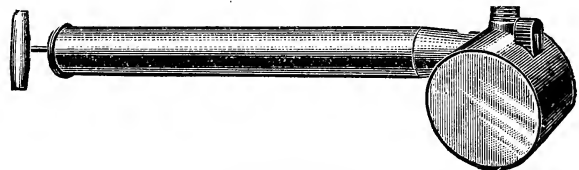
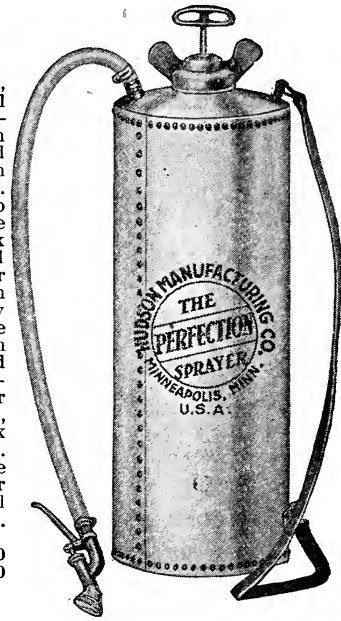


### KANT KLOG

The sprayer holds over 4 gallons. The air pump is made of heavy brass 2 inches in diameter. A safety valve is provided. Special attention is called to the new "Kant Klog". The first and only nozzle ever made which gives both flat and round sprays or solid sprays. A light pressure of the thumb starts the spray instantly. Price, Galvanized Steel and 3 feet brass extension rod, \$6.25; Polished Brass and 3 feet brass extension rod, \$9.60.

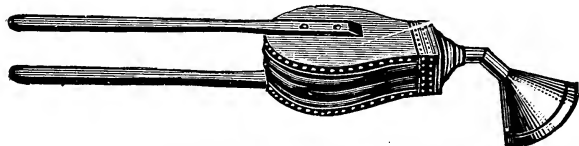
### PERFECTION SPRAYER

Built on the best lines, of high grade material and with the idea of turning out a sprayer which has none of the faults and defects so common in many Knapsack sprayers. The hose is attached to the sprayer at an angle so that it will not kink and become cracked and broken. The shoulder strap is attached with snaps and can be quickly and easily removed. The hose is 3/4-inch 5-ply cloth inserted and is equipped with our automatic shut-off nozzle. This sprayer will handle Whitewash, Water, Paints, Bordeaux Mixtures, etc., perfectly. These sprayers are made in galvanized steel or brass as ordered. All sprayers tested to 60 lbs. before leaving factory. Galvanized Steel.....\$6.50 All Brass..... 9.00



### NEW MISTY

Made of heavy tin; has the same size air chamber as our other styles, and the reservoir holds about one quart and throws a single spray straight ahead. Price, postpaid, 60c; by express, 50c.



### ACME POWDER GUN

Sprays powdered insecticides. It weighs 1 1/2 pounds. Price, by express, \$1.25.

### THE MYERS POWER SPRAY GUN

LENGTH OVER ALL 24 INCHES

Utilizes the Entire Capacity of any Power Spray Pump and does away with all Bamboo Extensions, Nozzles and Fittings

Fig. 1824 illustrates the Myers Power Spray Gun designed for use with any Power Spray Pump. Its capacity is only limited by the quantity of material discharged by the pump. The idea is to enable one man to do the spraying, thus saving the expense of two extra men as is the case with the ordinary spray rig using two lines of hose with bamboo extensions.

By a one-third turn of the handle the spray can be adjusted from a long distance spray reaching the top of the tree to an extremely broad spray sufficient to cover the entire tree or shut off entirely.

It is furnished with three separate discs designed to deliver the entire capacity of the pump, either 4, 6 or 8 gallons per minute.

One-third turn of the handle adjusts the spray from a wide open nozzle to a complete shut-off of the mixture.

Fig. 1824



Fitted for 3/4-inch Hose Coupling and 1/4-inch Pipe. Price, \$10.50.

# Spray Mixtures and Insecticides

Where the packed mail weight is given the goods may be sent by Parcel Post. If no mail weight is given they can only be sent by express or freight.

## ARSENATE OF LEAD—PASTE

A poison taking the place of Paris Green. Its advantages are that it adheres to foliage, does not readily wash off by rain and does not injure tender foliage. It is white in color and shows just where it has been applied. Price, 1-lb. tin, 40c; 5-lb. tin, \$1.75; 12½-lb. pail, \$3.50; 25-lb. bucket, \$6.50; 50-lb. bucket, \$12.50; 100-lb. keg, \$24.00.

## ARSENATE OF LEAD—POWDERED

May be used as either a dust diluted with hydrated lime, plaster or road dust, or as a liquid spray with water, lime-sulphur, solution or Bordeaux, only half the weight is needed as of the paste form. Price, ½ lb., 35c; 1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.25; 25 lbs., \$12.50.

## TOBACCO DUST

One of the best remedies for green and black aphids, fleas, beetles, etc., also for insects in the ground. Price, 1 lb., postpaid, 25c; not postpaid, 1b., 16c; 5 lbs., 50c; 10 lbs., 75c 50 lbs., \$3.50; 100 lbs., \$6.00.

## FISH OIL SOAP

(Whale Oil Soap.) A wash for insects and eggs on the bark and for smearing the trunks of trees to prevent worms from crawling up. Price, 25c per lb.; (mail weight, 2 lbs.); 5 lbs., 95c; (mail weight, 6 lbs.); 10 lbs., \$1.65.

## KEROSENE EMULSION

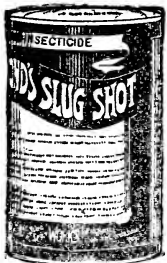
This is a safe and sure remedy to kill all sucking insects, that is those which get their nourishment through a proboscis, which they insert into the leaves or bark. Price, qt., 60c; gal., \$1.25; by express.

## BUG DEATH

This is a powder used for killing any bug or worm that eats the foliage or flowers of any plant. It is absolutely harmless to plant or animal life, thus making it a safe poison. Can be used dry or with water. For best satisfaction should be used when the tender shoots come. Price, 1 lb. package, postpaid, 20c; not postpaid, 18c; 3 lb. package, not postpaid, 45c; 5 lb. pkg., 60c; 12½ lb. pkg., \$1.25; 100 lb. keg, \$8.50.



Reg. U. S. Pat. Off.



## SLUG SHOT

Just dust it lightly on the plants. It kills potato bugs, cabbage worms, melon, squash and cucumber bugs. Non-poisonous and harmless to all creatures except insect life. Price, 1 lb. can, postpaid, 25c; not postpaid, 20c; 5 lbs., not postpaid, 45c; 10 lbs., 80c.

## HAMMOND'S GRAPE DUST

Kills certain Mildews and Blights on Flowers or Fruits, Roses, Chrysanthemums, Violets, Grapes, Gooseberries, Musk Melon, Onion Smut, Rust Mite on the Cabbage, Rust or Mildew on Parsley and on any plant. Grape Dust is a practical, economical and usually effectual remedy. The application is to be made by dusting the diseased portions of the plant. Price, 1 lb. can with perforated top, 25c postpaid; not postpaid, 1 lb. 20c; 5 lbs. 65c; 10 lbs. \$1.15.

## CROP PROTECTION

Our customers spend considerable money and labor for seed and planting:—for the returns expected from a large and profitable crop:—but frequently the crop is cut to a considerable extent, by the ravages of insects. Crop Protection means destroying the insects, and at the right time.

**CALCIUM ARSENATE** will overcome your insect troubles. This is an arsenical poison of superior strength, prepared in dry powdered form for dusting or mixing with water for the control of garden pests.

## Strong—Deadly—Effective

### ANALYSIS

|  |       |
|--|-------|
| Arsenic Oxide.....                             | 37%   |
| Inert Ingredients.....                         | 63%   |
| Arsenic, expressed as Metallic Arsenic.....24% |       |
| Water Soluble Arsenic, not more than.....      | 01.5% |

Used in the same manner and for the same purposes as Paris Green or Arsenate of Lead for garden pests. Calcium Arsenate sells for considerably less than Arsenate of Lead and protect your crop and your pocket-book. ½ lb., 30c; 1b., 50c; 5 lbs., \$2.00; 10 lbs. \$3.50; 25 lbs., \$6.00.

## BOREAU—POWDERED

Requires 1 to 1½ lbs. to 10 gallons of water as fungicide spray. Price, 1 lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.50; 25 lbs., \$7.00; 50 lbs., \$12.00; 100 lbs., \$20.00.

## "BLACK LEAF 40"

Very effective for sucking insects such as plant lice, red spider, leaf hopper, thrip, etc., sprayed on. Dilute 2 teaspoonfuls to a gallon of water. It also forms a splendid spray for both insects and fungus with Bordeaux. Price, 1-oz. bottle, 25c; ½-lb. tin, 75c; 2-lb. tin, \$2.50; 10-lb. can, \$10.75.

## PARIS GREEN

An insoluble, poisonous powder for potato bugs, codling moth, worms, caterpillars, slugs and bugs. Applied as a powder it should be mixed with plaster or flour, 100 parts to 1 part of Paris Green; in solution mix 1 lb. in 200 to 300 gallons of water. Price, ½ lb. pkg., 35c; 1 lb., pkg., 50c; 1 lb. pkg., 90c; 5 lb. pkg., \$4.00.

## SULPHO-TOBACCO SOAP

Is a powerful agent for the destruction of all bugs and insects. Of special value for spraying roses, shrubs and vines. One or two applications will rid plants of the pests. Full directions with each cake.

3-oz. cake makes 1½ gallons, 14c; postpaid, 8-oz. cake makes 4 gallons, 29c; postpaid, 10-lb. cake makes 80 gallons, \$3.00; by express, your expense.

## LIME SULPHUR SOLUTION

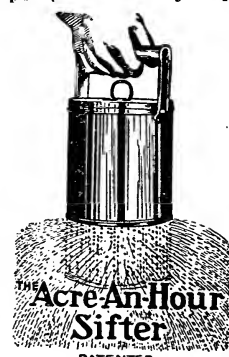
For scale insects on trees and such fungus bark diseases as can be treated in winter. Dilute and apply with a spray pump while trees are dormant, in fall, winter or spring. Can be used strong during mid-winter, but earlier or later dilute it 1 gallon to 30 to 40 of water. Price, quart can, 45c; gallon, 90c; 5-gallon can, \$3.35; barrel of 50 gallons, \$15.00.



## DICKEY DUSTER

For use in applying dry insect powder. Price, 50c; postpaid, 45c by express.

**THE ACRE-AN-HOUR SIFTER** is ideal for applying B U G D E A T H and other dry insecticides. Price, by express, 75c.

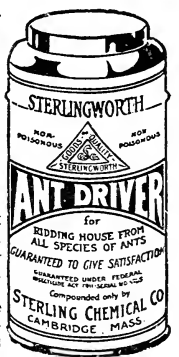


SEPT. 14, 1909

## ANT DRIVER

This is effective against most of the known species, especially the small red and black ant, which are most troublesome in this country. Price

postpaid, 35c; not postpaid, 25c.



Prices of Insecticides and Spray Mixtures Subject to Change

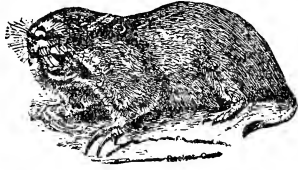
## Pest Exterminators

The postal laws of our land are such that we cannot send poisonous exterminators through the mails. We suggest that if you wish any of the small packages that you include them with your seed order and have them sent by express. Where we say postpaid we also mean prepaid.

### NOX-EM-ALL GOPHER TABLETS

Kills Pocket Gophers, Ground Squirrels, Prairie Dogs, Ground Hogs and other Rodents.

Don't let the Pocket Gophers ruin your alfalfa fields. Don't let the Ground Squirrels spoil your corn stand. Don't permit the prairie dogs to lay waste your fields that would otherwise produce crops. It's easy to poison them. A little time in the early spring will rid your farm of these destructive pests.



NOX-EM-ALL GOPHER TABLETS are the most effective poison we know. They are sure death to Pocket Gophers, Ground Squirrels, Prairie Dogs, Ground Hogs and other field Rodents. They are made of tidbits especially attractive to these pests which eat them greedily. They are easy to use—sure in results. Buy them—use them and save your crops. Directions printed on each package.

Put up in two sizes:

|                   |        |
|-------------------|--------|
| 200 tablets ..... | \$ .50 |
| 500 tablets ..... | 1.00   |



### RAT CORN



If you have Rats or Mice use Rat Corn. No matter whether you have one rat or a thousand Rat Corn will do the work. One can of Rat Corn is better than a dozen cats. It mummifies your rodents; they leave no odor; become hard and dry like leather. Is not dangerous to handle. Harmless to human beings. Price, 25c; 50c and \$1.00; postpaid.



### CARBOLA

USE CARBOLA, THE GERM-PAINT, INSTEAD OF WHITEWASH

Carbola is a mineral pigment combined with a germicide twenty times stronger than pure carbolic acid, but it is absolutely non-poisonous and non-caustic.

Carbola is ready the minute you mix it with cold or hot water. It does not spoil by standing, so can be kept on hand for use when convenient or on a rainy day. It does not flake or peel. You apply it with a brush or sprayer. Carbola never clogs the sprayer. It is used by thousands of poultrymen, dairymen and farmers in all sections of the United States and by many experiment stations and agricultural colleges.

Carbola is so easily prepared and applied that you can easily keep your poultry houses, stables, dairies, cellars, etc., thoroughly sanitary and attractive in appearance at all times.

Your money back without an argument if it is not what we claim.  
10 lbs. (10 gals.), \$1.00 and postage; 20 lbs. (20 gals.), \$2.00 delivered; 50 lbs. (50 gals.), \$4.00, delivered. Trial package (covers 250 sq. feet) and booklet for 25c, postpaid..

MAKE 25c IN FIVE MINUTES, SEE PAGE 21

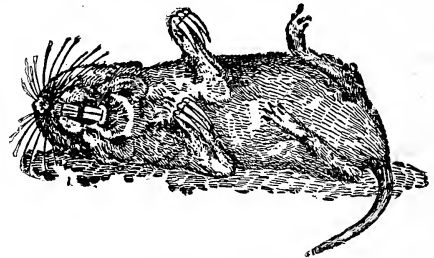


### STERLINGWORTH CUT WORM KILLER

We now offer STERLINGWORTH CUT-WORM KILLER as a preparation which is quick and sure in effect and non-poisonous to animal. It is so alluring to Cut Worms that they are irresistibly attracted to it and eat it in preference to any vegetation. Dead Cut Worms may be seen wherever there are Cut Worms and Sterling Cut Worm Killer has been used. To protect plants in hills, sprinkle a small quantity of Killer around the plant. When in rows, sprinkle both sides of row. Never sprinkle the plants with Sterlingworth Cut Worm Killer for the worm will climb for it and is likely to destroy the plant in reaching the Killer. Order Sterlingworth Cut Worm Killer when you buy your seeds and have in on hand ready for use at the right time. The cut worm does most of his damage in one or two nights and he will not wait for you. One pound is sufficient for 175 plants when in hills and 100 lineal feet when in rows. Satisfaction Guaranteed or Money Refunded. It is a coarse powder for sprinkling near the plants to be protected. Chickens and birds are not poisoned by it if they eat the dead worms. There is no guess work about it doing the business. Price, 1 lb., postpaid, 35c; not postpaid, 25c; 5 lbs., not postpaid, \$1.25; 25 lbs., \$4.00; 100 lbs., \$12.00.

### GOPHERGO

(Machine Poisoned Raisins)



It will exterminate gophers, squirrels, prairie dogs, rabbits, and is the only prepared poison that will get the gopher. The government advises poisoning as the most effective and best method of exterminating ground pests, but it must combine three points: An attractive bait, thoroughly poisoned, placed where they will get it. Gophergo does it. Try it, if it doesn't do the work we return your money. Price, 1 lb., can, not postpaid, 30c; 1b. can, not postpaid, 60c; 2 lb. can, not postpaid, \$1.15; 8 lb. can, \$3.00.

Remember! Small Orders Receive the Same Attention as Large Ones

## Beekeepers Supplies

The highest standard of excellency in material and workmanship is found in our beekeepers' supplies. The best is always the cheapest. Our goods are sure to please. Prompt and careful attention given to all orders whether large or small, and mistakes promptly corrected.

The following prices are not postpaid.

**OUR GUARANTEE**—We absolutely guarantee our goods to be manufactured of the best material and workmanship. After examining, if our goods are not as represented, write us giving a careful explanation of the defect, and then, on our order, the goods may be returned at our expense, and we will refund your money with all transportation charges you have paid. If preferred, we will replace the order free of charge.

### ROOT HIVES

These are single-walled, made of the best selected white pine,  $\frac{7}{8}$  inch thick, and lock-cornered, or dovetailed, together to insure strength and squareness of fit. Tin rabbets for the frames to rest upon are furnished with all hive bodies, but not with supers.

We do not furnish division-boards in any of our standard hives as regular equipment because most beekeepers do not use them. When wanted, these must be ordered as an extra.

For convenience of beginners who do not know how to make up hive combinations and hive parts we are listing certain of the more popular combinations with prices. After one becomes familiar with the business he can make up any combination he desires. The hive below is a brood-chamber with cover and bottom, the basis of every combination. Any style of super or upper story may be ordered in connection with this to make a complete hive.

In all hive and accessory quotations, N means nailed and K. D. knocked down, or in flat.

### ONE-STORY STANDARD HIVE

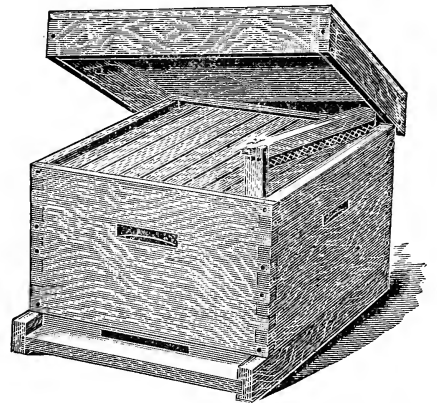
While this hive is made either in eight-frame or ten-frame size, we recommend the ten-frame. Nails and tin rabbets are included with all hives. Hand-hole cleats omitted unless ordered. The eight-frame size measures  $13\frac{1}{8} \times 20$  inches, and  $9\frac{9}{16}$  inches deep. The ten frame hive is  $16\frac{1}{4} \times 20$  inches, and  $9\frac{9}{16}$  inches deep.

#### PRICE LIST OF ONE-STORY STANDARD HIVE

No Super or Upper Story Included with this Combination. Includes Reversible Bottom, Metal Cover, Inner Cover, Hoffman Frames, No Division Board. Order comb foundation separately for hives KD, shown on page 72.

| One-story Standard Hive as described above with | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|---|-------------|----------|--------|-----------|--------|--|
|   | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| No foundation .....                             | 1 N         | C15101   | \$5.30 | C25101    | \$5.60 |  |
| No foundation .....                             | 1 KD        | C15102   | 3.70   | C25102    | 3.85   |  |
| No foundation .....                             | 5 KD        | C15103   | 16.90  | C25103    | 17.80  |  |
| Inch foundation starters.....                   | 1 N         | C15104   | 5.50   | C25104    | 5.80   |  |
| Full sheets foundation.....                     | 1 N         | C15107   | 7.10   | C25107    | 7.40   |  |

If a cheaper outfit is desired the Excelsior cover (page 70) may be substituted for the metal cover at a reduction of 20 cts. each, either N or KD. When so ordered, designate with a "1" instead of a "5" in the second figure of combination number.



One-story Standard Hive With Metal Cover

### TWO-STANDARD HIVE FOR EXTRACTED HONEY

The two-story hive is very convenient for the man who has not much time to spend with his bees, as the farmer and fruit grower. One of the greatest objections of the farmer against beekeeping is that he cannot afford to waste any time fussing with swarms. He would be willing to keep bees if he could place a few colonies in his orchard without having the "everlasting swarming." This difficulty may be largely overcome by the use of this hive run for extracted or chunk honey.

This is the same as the one shown above except that it is two-story, one body with frames over the other. It has the same reversible bottom, cover and frames.

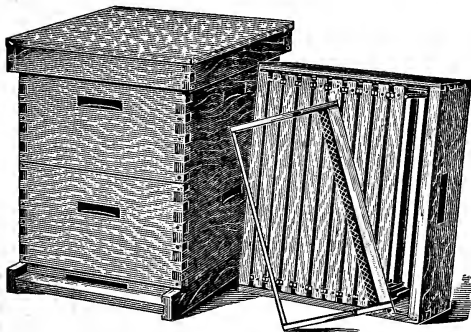
#### Price List of Two-story Standard Hive for Extracted Honey in Deep Frames

Equipped with reversible bottom, metal cover, inner cover, frames, but no division-board.

Order comb foundation separately for hives KD, shown on page 72.

| Two-story Standard extracting hive as described above | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|---|-------------|----------|--------|-----------|--------|--|
|   | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| No foundation .....                                   | 1 N         | C15201   | \$7.95 | C25201    | \$8.40 |  |
| No foundation .....                                   | 1 KD        | C15202   | 4.90   | C25202    | 5.20   |  |
| No foundation .....                                   | 5 KD        | C15203   | 24.50  | C25203    | 27.90  |  |
| Inch foundation starters.....                         | 1 N         | C15204   | 8.25   | C25204    | 9.70   |  |
| Full sheets foundation.....                           | 1 N         | C15207   | 11.35  | C25207    | 12.00  |  |

If you do not have a swarm on the farm, it is advisable in most cases to get one. See that it goes into winter on good condition and next spring be ready to care for other swarms. In this way a shortage of sugar need have no terrors for you.



Two-story hive for extracted honey with metal cover

**Our Prices and What They Include.**—Before comparing our prices with those of any of our competitors, notice carefully what we furnish with our regular equipment. Note in particular the superior cover that we furnish, which will outlast many times any wood cover made.

The use of comb foundation in frames and sections is important and should not be omitted but the foundation should be ordered separately instead of being included as a part of a complete hive. Sections also should be ordered in regular packages. Additional sections and foundation will be needed when first lot are taken off the hive. It is better to consider these items separately as necessary extras rather than as part of a complete KD, hive.

**BEEKEEPER'S SUPPLIES—Continued****Price List of Hive with One Shallow Extracting Supers, 5 11/16 Inches Deep.**

Equipped with reversible bottom, metal cover, inner cover, frames, but no division-board.

Order comb foundation separately for hives KD, shown on page 72.

| 1½-story Extracting-hive as described<br>above, One Super, with— | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|--|-------------|----------|--------|-----------|--------|--|
|  | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| No foundation  | 1 N         | C15121   | \$7.15 | C25121    | \$7.55 |  |
| No foundation  | 1 KD        | C15122   | 4.80   | C25122    | 5.10   |  |
| No foundation  | 5 KD        | C15123   | 22.20  | C25123    | 23.35  |  |
| Inch foundation starters   | 1 N         | C15124   | 7.50   | C25124    | 7.90   |  |
| Full sheets foundation   | 1 N         | C15127   | 9.75   | C25127    | 10.20  |  |

**STANDARD HIVES FOR COMB HONEY IN PLAIN AND BEEWAY SECTIONS**

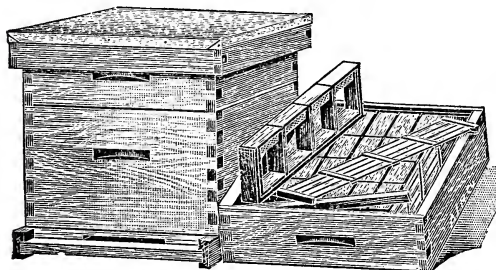
The following hive combinations are made up of the same hive body or brood-chamber, same bottom-board, and same cover, as the preceding combinations, but differing in the respect that the second story or super is fitted with section-holders and sections with the necessary separators or fences for the production of comb honey. There are several different styles of comb-honey supers, but the ones most commonly used are the 4¼x4¼x1½ plain or no-beeway the 4¼x4¼x1½ slotted or beeway, and the 4x5x1½ plain or no-beeway. If two story hives are wanted in this style, order an extra super for each hive. Price of supers on page 69.

**Price List of Hive Taking 4¼x4¼x1½ Plain or No-beeway Sections**

Equipped with reversible bottom, metal cover with inner cover, one comb-honey supers, foundation as ordered. Hoffman frames, but no division-board.

Order comb foundation and sections separately for hives KD, shown on page 72.

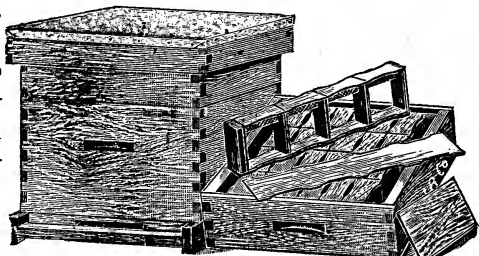
| 1½-story Comb-honey<br>Hive as described<br>above, one Super with— | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|--|-------------|----------|--------|-----------|--------|--|
|  | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| No foundation; no sections in super                                | 1 N         | C15141   | \$7.25 | C25141    | \$7.65 |  |
| No foundation; no sections in super                                | 1 KD        | C15142   | 5.00   | C25142    | 5.20   |  |
| No foundation; no sections in super                                | 5 KD        | C15143   | 22.65  | C25143    | 23.90  |  |
| Inch starters in frames and sections                               | 1 N         | C15144   | 7.95   | C25144    | 8.40   |  |
| Full sheets in frames and sections                                 | 1 N         | C15147   | 8.20   | C25147    | 10.70  |  |

**1½-story Hive for Comb Honey in 4¼x4¼x1½ inch Plain Sections****Price List of Hive Taking 4¼x4¼x1½ Slotted or Beeway Sections**

Equipped with reversible bottom metal cover, inner cover, one comb-honey supers, foundation as ordered, frames, but no division-board. See page 69 for super.

Order comb foundation and sections separately for hives KD, shown on page 72.

| 1½-story Comb-honey Hive<br>as described above, one<br>Super, with— | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|---|-------------|----------|--------|-----------|--------|--|
|   | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| No foundation; no sections in super                                 | 1 N         | C15151   | \$7.05 | C25151    | \$7.45 |  |
| No foundation; no sections in super                                 | 1 KD        | C15152   | 4.80   | C25152    | 4.00   |  |
| No foundation; no sections in super                                 | 5 KD        | C15153   | 21.75  | C25153    | 22.50  |  |
| Inch starters in frames and sections                                | 1 N         | C15154   | 7.80   | C25154    | 8.20   |  |
| Full sheets in frames and sections                                  | 1 N         | C15157   | 10.15  | C25157    | 10.50  |  |

**1½-story Hive for Comb Honey in 4¼x4¼x1½ inch Slotted or Beeway Sections**

What is said about the Root hive on page 67 applies, of course, to Root hive bodies. The ten-frame size, measures 16¼x20 inches and is 99/16 inches deep. The eight-frame body is 13¾x20 inches, and 99/16 inches deep, using the same frames. The hive-body may be used either as a brood chamber, i. e., the lower story of the hive, or as a full-depth upper story or super for extracted honey, thus forming a two-story hive as listed on page 107.

The Danzenbaker hive is made only in the ten-frame size and measures 16¼ x 20 x 7½ inches deep. It is furnished with closed-end frame, which, being supported by pivots in the middle of each end-bar, are reversible. A division-board is furnished with this hive, it being necessary to hold the frames tightly together.

Danz. hive-body in ten-frame size only, is same price throughout as the standard eight-frame hive-body.

**Price List of Standard Hive Body or Brood-Chamber, 99/16 Inches Deep.**

Nails and tin rabbets included with bodies. No division-board unless so ordered.

Order comb foundation and sections separately for hives KD, shown on page 72.

| Description                              | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|--|-------------|----------|--------|-----------|--------|--|
|  | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| Empty Standard body without frames       | 1 N         | C19101   | \$1.35 | C29101    | \$1.45 |  |
| Empty Standard body without frames       | 1 KD        | C19102   | 1.05   | C29102    | 1.10   |  |
| Empty Standard body without frames       | 5 KD        | C19103   | 4.65   | C29103    | 4.95   |  |
| Standard body with frames, no foundation | 1 NP        | C10101   | 2.65   | C20101    | 2.90   |  |
| Standard body with frames, no foundation | 1 KD        | C10102   | 1.80   | C20102    | 1.90   |  |
| Standard body with frames, no foundation | 5 KD        | C10103   | 7.65   | C20103    | 8.05   |  |
| Standard body with frames inch starters  | 1 NP        | C10104   | 2.80   | C20104    | 2.95   |  |
| Standard body with frames, full sheets   | 1 NP        | C10107   | 4.35   | C20107    | 4.60   |  |

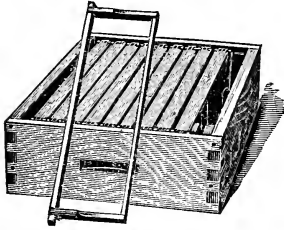
**Increasing Prices.**—While the prices listed herein are in nearly every case quite a little higher than were named on the same articles a year ago, the existing conditions fully warrant this advance. Lumber has advanced more than fifty per cent in the past eighteen months and sheet steel, tin plate, and other metals have increased to three and four times their former value. While your supplies cost you more you are also getting from fifty to one hundred per cent more for your money. In other words the value of the dollar, our measuring medium, has been greatly reduced because of the greatly increased volume of dollars in circulation. ¼

**BEEKEEPER'S SUPPLIES—Continued**

**SHALLOW EXTRACTING SUPERS 5 11/16 Inches Deep**  
Used in the production of chunk honey. Also for producing extracted honey in shallow frames, two frames fitting together in an extractor comb-pocket of 12-inch width. These supers may also be used as one brood chamber, such being called a sectional or divisible brood-chamber hive, and any style of super may be used above for comb or extracted honey. The same depth of super is used with section frames for the 4 1/4 x 4 1/4 x 1 1/2 section, and with hanger cleats added, for shallow Danzenbaker frames or section-holders taking the 4x5x1 1/2 section. This is our regular extracting super, 5 11/16 inches deep, and is furnished with shallow Hoffman frames, 5 1/2 inches deep, with or without foundation.

**Price List of Shallow Extracting Supers or Sectional Brood-Chamber, 5 11/16 Inches Deep**

Furnished empty or with frames. No tin rabbets or division boards furnished. The same super fitted with shallow Danzenbaker frames would cost 5 cents each more.



Order comb foundation separately for supers KD, shown on page 72

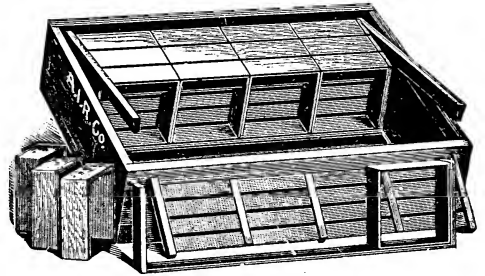
| Description                                   | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|---|-------------|----------|--------|-----------|--------|--|
|   | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| Empty super body, no frame.....               | 1 N         | C19021   | \$0.90 | C29021    | \$0.95 |  |
| Empty super body, no frames.....              | 1 KD        | C19022   | .70    | C29022    | .75    |  |
| Empty super body, no frames.....              | 5 KD        | C19023   | 7.95   | C29023    | 8.15   |  |
| Super with shallow frames, no foundation..... | 1 N         | C10021   | 1.85   | C20021    | 1.95   |  |
| Super with shallow frames, no foundation..... | 1 KD        | C10022   | 1.20   | C20022    | 1.25   |  |
| Super with shallow frames, no foundation..... | 5 KD        | C10023   | 5.30   | C20023    | 5.55   |  |
| Super with frames, 1-inch starters.....       | 1 N         | C10024   | 2.00   | C20024    | 2.10   |  |
| Super with frames, full sheets.....           | 1 N         | C10027   | 2.55   | C20027    | 2.80   |  |

**Price List of Plain Section Super for 4 1/4 x 4 1/4 x 1 1/2 Plain Sections, 4 3/4 Inches Deep**

Super complete without sections includes nails, flat tins, bevel cleats, end-stops, super springs, plain section-holders, and fences. For empty super see next price list.

Order comb foundation and sections separately for Supers KD, shown on page 72.

| Description                               | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|---|-------------|----------|--------|-----------|--------|--|
|   | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| Super without sections or foundation..... | 1 N         | C10041   | \$1.95 | C20041    | \$2.05 |  |
| Super without sections or foundation..... | 1 KD        | C10042   | 1.30   | C20042    | 1.40   |  |
| Super without sections or foundation..... | 5 KD        | C10043   | 5.75   | C20043    | 6.10   |  |
| Super with sections, 1-inch starters..... | 1 N         | C10044   | 2.50   | C20044    | 2.65   |  |
| Super with sections, full sheets.....     | 1 N         | C10047   | 3.10   | C20047    | 3.25   |  |



4 1/4 x 4 1/4 x 1 1/2 Plain Section Super

**Price List of Slotted Section Super for 4 1/4 x 4 1/4 x 1 1/2 Beeway Sections, 4 3/4 Inches Deep.**

Super complete without sections includes nails, flat tins, slotted section-holders, slotted separators, follower, super-springs.

Order comb foundation and sections separately for supers KD, shown on page 72.

| Description                               | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|---|-------------|----------|--------|-----------|--------|--|
|   | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| Empty super only, no fittings.....        | 1 N         | C19051   | \$0.75 | C29051    | \$0.80 |  |
| Empty super only, no fittings.....        | 1 KD        | C19052   | .60    | C29052    | .75    |  |
| Empty super only, no fittings.....        | 5 KD        | C19053   | 2.40   | C29053    | 2.50   |  |
| Super without sections or foundation..... | 1 N         | C10051   | 1.75   | C20051    | 1.85   |  |
| Super without sections or foundation..... | 1 KD        | C10052   | 1.10   | C20052    | 1.20   |  |
| Super without sections or foundation..... | 5 KD        | C10053   | 4.80   | C20053    | 5.10   |  |
| Super with sections, 1-inch starters..... | 1 N         | C10054   | 2.30   | C20054    | 2.45   |  |
| Super with sections, full sheets.....     | 1 N         | C10057   | 2.95   | C20057    | 3.10   |  |

**4x5x1 1/2 PLAIN SECTION SUPER**

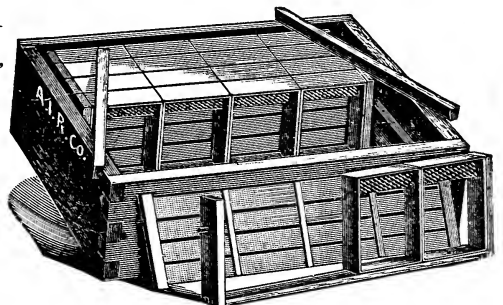
We recommend this super in preference to any other comb-honey super that we sell especially in the ten-frame size. This is a deeper super, 5 11/16 in. and is fitted with hanger cleats to support section-holders and M. fences with end wedges and springs. The regular 16 1/4 in. ten-frame width will easily admit eight section-holders and eight fences with super springs.

**Price List of Section Super for 4x5x1 1/2 Plain Sections, 5 11/16 Inches Deep**

Super complete without sections includes hanger-cleats, end-stops, section-holders, fences, super springs, and nails.

Order comb foundation and sections separately for supers KD, shown on page 72.

| Description                               | EIGHT-FRAME |          |        | TEN-FRAME |        |  |
|---|-------------|----------|--------|-----------|--------|--|
|   | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |  |
| Super without sections or foundation..... | 1 N         | C10061   | \$2.20 | C20061    | \$2.35 |  |
| Super without sections or foundation..... | 1 KD        | C10062   | 1.60   | C20062    | 1.75   |  |
| Super without sections or foundation..... | 5 KD        | C10063   | 7.00   | C20063    | 7.35   |  |
| Super with sections, 1-inch starters..... | 1 N         | C10064   | 2.80   | C20064    | 3.05   |  |
| Super with sections, full sheets.....     | 1 N         | C10067   | 3.55   | C20067    | 3.80   |  |

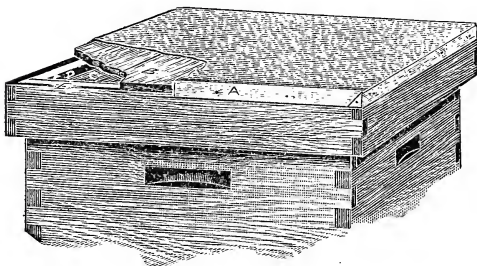


BEEKEEPER'S SUPPLIES—Continued

HIVE COVERS AND BOTTOM-BOARDS

Metal-roofed Double Cover

This cover, formerly designated as the Rc cover, has given such universal satisfaction that we adopted it some time ago for all our hive combinations. It is the cover which we furnish regularly unless otherwise specified.



Metal Cover

This cover is not complete without the inner cover, which is simply a bee-escape board without the escape and is included in the prices quoted below. Its purpose is to prevent the outer cover from becoming stuck down with propolis, and make it bee-tight. Description of inner cover is given at bottom of this page.

| Description                        | EIGHT-FRAME |          |        | TEN-FRAME |        |
|------------------------------------|-------------|----------|--------|-----------|--------|
|                                    | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |
| Metal cover with inner cover ..... | 1 N         | C15001   | \$1.90 | C25001    | \$2.00 |
| Metal cover with inner cover ..... | 1 KD        | C15002   | 1.40   | C25002    | 1.50   |
| Metal cover with inner cover ..... | 5 KD        | C15003   | 6.65   | C25003    | 6.95   |

EXCELSIOR COVER

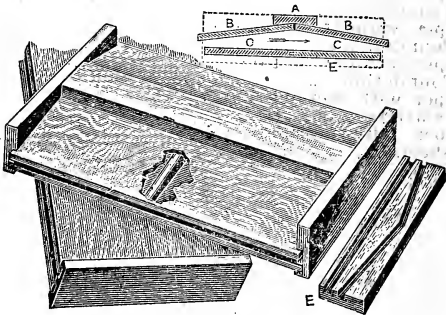
Our excelsior cover is entirely different from any other cover by that name on the market. Its advantages, which we have patented, are that the two sideboards, instead of being rabbetted down to 1/2 inch at the ends, are left full thickness, the same fitting into a 3/4-inch groove of the end cleats, and the sides and edges of the boards are molded on a special machine so they will shed water, while the under side is flat.

| Description                   | EIGHT-FRAME |          |        | TEN-FRAME |        |
|-------------------------------|-------------|----------|--------|-----------|--------|
|                               | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |
| Excelsior all-wood cover..... | 1 N         | C11001   | \$1.25 | C21001    | \$1.35 |
| Excelsior all-wood cover..... | 1 KD        | C11002   | .95    | C21002    | 1.00   |
| Excelsior all-wood cover..... | 5 KD        | C11003   | 4.20   | C21003    | 4.40   |

VENTILATED GABLE COVER

For extreme warm climates, with little or no shade, we do not know of anything better than this ventilated cover. It is constructed of 3/4-inch boards securely cleated at each end by means of channels or grooves into which both the top and under boards are inserted. The 3/4-inch space on the sides along the whole width of the hive permits of a free and constant circulation of air. It is furnished only when so ordered, and is the same price as the Excelsior cover.

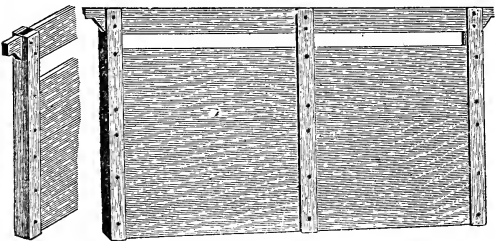
| Description                 | EIGHT-FRAME |          |        | TEN-FRAME |        |
|-----------------------------|-------------|----------|--------|-----------|--------|
|                             | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |
| Ventilated Gable cover..... | 1 N         | C13001   | \$1.35 | C23001    | \$1.50 |
| Ventilated Gable cover..... | 1 KD        | C13002   | 1.05   | C23002    | 1.10   |
| Ventilated Gable cover..... | 5 KD        | C13003   | 4.55   | C23003    | 4.85   |



Ventilated Cover

REVERSIBLE BOTTOM BOARD

This is our standard bottom-board which is furnished with all the hives unless otherwise specified. It is so constructed that when turned one side up it provides a 3/8-inch space under the frames while the other side, which should be used in summer, gives a 1/2-inch space. The floor-boards which are 3/8-inch tongued and grooved are slid into grooves in the outer rim or frame and nailed in such a way that swelling and shrinking is cared for.



Plain Division-board—No Chaff

| Description                            | EIGHT-FRAME |          |        | TEN-FRAME |        |
|--|-------------|----------|--------|-----------|--------|
|  | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |
| Reversible cypress bot-tom-board ..... | 1 N         | C31111   | \$1.10 | C32111    | \$1.25 |
| Reversible cypress bot-tom-board ..... | 1 KD        | C31112   | .80    | C32112    | .85    |
| Reversible cypress bot-tom-board ..... | 5 KD        | C31113   | 3.50   | C32113    | 3.70   |

PLAIN DIVISION BOARD—NO CHAFF

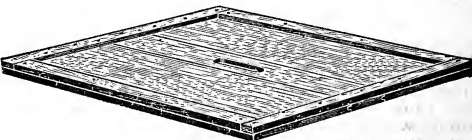
This is used as a follower with spacing-frames, such as the Hoffman or closed-end. When there is less than the required number of combs to fill the hive division-boards are almost a necessity to prevent the bulging of the outside combs

|                               | Each | Per 10 |
|-------------------------------|------|--------|
| Plain division board, N.....  | 16   | \$1.40 |
| Plain division board, KD..... | 14   | 1.20   |

INNER COVER

To prevent the bees from sticking down the telescope covers like the two shown above, an inner cover is needed. By far the most satisfactory cover is the bee-escape board. These are 3/8-inch thick with a wood rim and hole for bee-escape to be inserted when needed. With all our hives taking the regular metal cover, these are included KD. See page 72 for escapes.

| Description                                     | EIGHT-FRAME |          |        | TEN-FRAME |        |
|---|-------------|----------|--------|-----------|--------|
|   | Quan.       | Cat. No. | Price  | Cat. No.  | Price  |
| Inner cover or bee-escape board, no escape..... | 1 N         | C31211   | \$0.40 | C32211    | \$0.45 |
| Inner cover or bee-escape board, no escape..... | 5 KD        | C31213   | 1.50   | C32213    | 1.60   |



Inner Cover

Honey is a delightful and economical substitute for sugar that has all the delicious flower-sweetness added to it. It is free from adulteration when delivered to man, and for that reason is in many ways, better than sugar. It may be used in canning, baking and on raw fruits, in addition to being used as a spread on bread.

**BEEKEEPER'S SUPPLIES—Continued****SUPER SPRINGS**

All of our supers are equipped with Hetherington super-springs which cause a gentle yielding pressure upon the sections. A spring is far better than any wedge or thumb-screw, because it adapts itself to variations of climate, causing a shrinkage and swelling of the contiguous parts. A flat spring will take up the gaps and keep the parts firmly squeezed together. Without springs or some form of compression, the bees will chink in propolis at every crack made between the sections, separators, or fences. The result of all this is that a large amount of propolis has to be scraped off the edges of the sections and separators contiguous to each other.

Super-springs 1½¢ each; weight of 100, 1½ lbs.; \$1.00 per 100.

**COATED WIRE NAILS FOR HIVES, ETC.**

Prices subject to market changes

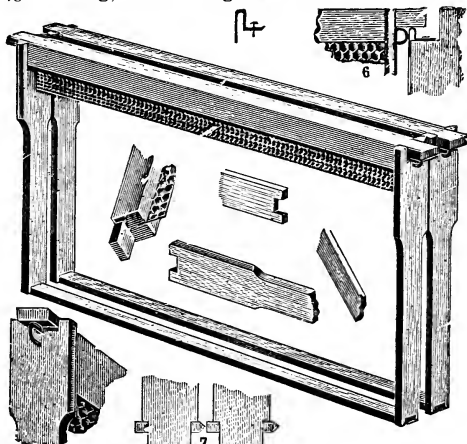
| Size                                      | Price Per<br>Per lb. 10 lbs. | Per    |
|---|------------------------------|--------|
| 1-in., very fine and slim.....            | \$0.20                       | \$1.80 |
| 2d, regular fine, for nailing frames..... | .20                          | 1.80   |
| 3d, 1½ in. long, for nailing cases.....   | .20                          | 1.80   |
| 4d, 1¾ in. long.....                      | .15                          | 1.30   |
| 5d, 1¾ in. long.....                      | .15                          | 1.30   |
| 6d, 1¾ in. long.....                      | .15                          | 1.30   |
| 7d, 2¼ in. long, for nailing hives.....   | .15                          | 1.30   |

**TINNED WIRE**

No. 30 tinned wire is the most suitable of any for wiring frames. Its purpose is to hold foundation or combs securely in the frames, and at the same time reduce the danger of sagging.

670 feet are required for 100 Hoffman frames.

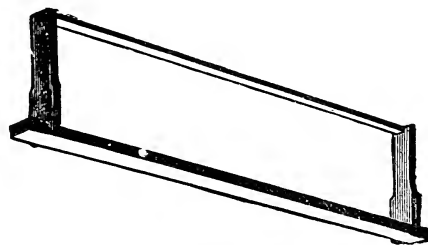
| Sizes Furnished               | Each     | wt.          |
|-------------------------------|----------|--------------|
| ¾-oz. spools tinned wire..... | 85 ft.   | \$0.10 2 oz. |
| ¼-lb. spools tinned wire..... | 463 ft.  | .20 6 oz.    |
| ½-lb. spools tinned wire..... | 926 ft.  | .30 10 oz.   |
| 1 lb. spools tinned wire..... | 1850 ft. | .50 18 oz.   |
| 5-lb. coils tinned wire.....  |          | 2.10 5 lbs   |



Hoffman Frame

**SHALLOW EXTRACTING FRAMES**

These are made like regular Hoffman frames, but with top-bar 11/16 in. wide, ¾-in. thick, 18¾ in. long, with single groove. Bottom-bar is ¾ wide and ¼ thick; the end-bars are Hoffman self-spacing style ¾ thick by 5½ long end-spaced with staple same as full-depth Hoffman frames. Frames with 7/8x1/2-in. top-bar also furnished at same price, or with ½x1 1/16 corner-cut top-bar at 30 cts. per 100 extra.

**THE HOFFMAN FRAME**

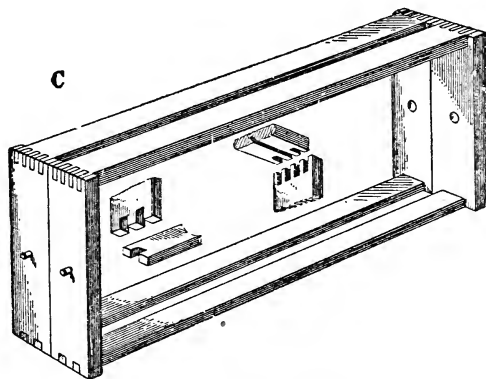
This holds its popularity better than any device we ever sold, and we furnish it regularly with all our hives unless otherwise specified. For a hanging frame it is the best self-spacer we know. It saves labor in that it can be handled in groups of three or four.

**Prices of Frames**

|  | In flat without wire |        |
|--|----------------------|--------|
| Following is furnished without foundation: | 10 100               |        |
| Hoffman, 9/8x17%.....                      | \$0.80               | \$7.00 |
| Shallow, ¾x1 1/16-in. top-bar.....         | .65                  | 5.55   |
| Danz brood, 7 7/16x17.....                 | .70                  | 6.00   |
| Wedges for old-style Hoffman frame.....    | Per 100              | .40    |

**CLOSED END FRAMES**

While we do not recommend this frame, we can furnish it to those who prefer it. It is supported by pivots in the middle of each end-bar, and is therefore reversible. A comb put in a hive upside down for a day or two during the honey-flow will have the space between the bottom-bar (now at the top) and the comb entirely closed up. This secures solid cards of comb without any pop-holes, or space, between the frame proper and the comb itself. When hunting a queen this is quite an important item, because there is absolutely no place for her to hide. This frame can be used only in the Danz. hive.



Danzenbaker Frame

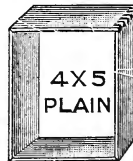
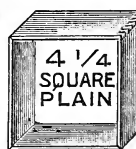
**PRICE LIST OF INSIDE FIXTURES FOR SUPERS**

|                                     | Per 100 |                                      | Per 100 |                                  | Per 100 |
|-------------------------------------|---------|--------------------------------------|---------|----------------------------------|---------|
| Slotted section holders.....        | \$5.30  | Bevel-cleats for P supers 10-fr..... | \$1.05  | 8-fr. S flat tins 13x%.....      | \$1.30  |
| Plain section-holders.....          | 4.65    | End stops for P supers 8-fr.....     | 1.05    | 10-fr. S flat tins 15x%.....     | 1.30    |
| Slotted wood separators.....        | 2.00    | End-stops for P supers 10-fr.....    | 1.05    | 8-fr. P flat tins 15x%.....      | 1.30    |
| Slat separators.....                | 5.30    | Tin Rabbits, T Tins, Flat Tins,      |         | 10-fr. P flat tins 15x%.....     | 1.30    |
| P-fences.....                       | 5.30    | 8-fr. tin rabbits 12-in.....         | 2.10    | Danz. section-holders 1¾ in..... | 5.50    |
| Bevel-cleats for P supers 8-fr..... | 1.05    | 10-fr. tin rabbits 14-in.....        | 2.10    | Danz. section-holders 1½ in..... | 5.50    |

**SIZE AND WIDTH OF SECTIONS**

Sections in most common use are 4¼x4¼x1½ inches wide with two beeways, 4¼x4¼x1½ inch plain (no beeway) and 4x5x1½ plain. We also furnish 3¾x5x1½ no beeway:

| Quan.     | A Grade | Price | Quan.     | B Grade | Price |
|-----------|---------|-------|-----------|---------|-------|
| 100.....  | \$1.15  |       | 100.....  | \$1.10  |       |
| 250.....  | 2.75    |       | 250.....  | 2.60    |       |
| 500.....  | 5.50    |       | 500.....  | 5.25    |       |
| 1000..... | 10.50   |       | 1000..... | 10.00   |       |



The kinds of sections commonly used

## BEEKEEPER'S SUPPLIES—Continued

## PRICE LIST OF COMB FOUNDATION

The package numbers in the following price list are for medium and light brood sizes 7 $\frac{1}{4}$ x16 $\frac{1}{2}$ , and for thin and extra thin super sizes 3 $\frac{1}{2}$ x15 $\frac{1}{2}$  only. Other regular sizes are the same price in like grades and quantities, and are designated according to the key below.

Price per pound, packed in boxes as follows

| Quantity               | Medium Brood | Light Brood | Thin Super | Ex. Thin Super |
|------------------------|--------------|-------------|------------|----------------|
| One 1-lb. box          | \$0.90       | \$0.95      | \$0.95     | \$0.98         |
| One 2-lb. box          | .89          | .94         | .94        | .97            |
| One 5-lb. box and over | .87          | .92         | .92        | .95            |

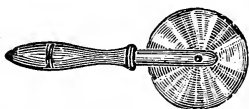
## ROOT SECTION-PRESS AND STEAM FOUNDATION-FASTENER

This is the first season we have offered the Root Steam Foundation-Fastener to the public. It has been tried out thoroly both by experts and novices, and will positively do quicker and better work than any device we ever sold for the purpose. It is cleaner, there being no soot nor smoke, and no danger of fire from wax dropping into the lamp.

|   |        |
|---|--------|
| Steam foundation-fastener and press, for 4 $\frac{1}{4}$ sections | \$7.00 |
| Steam foundation-fastener and press, for 4x5 sections             | 7.00   |
| Steam boiler with safety valve for use with above                 | 3.15   |
| Oil stove for heating boiler, "Summer Girl"                       | 2.10   |
| Root section-press only without stetam attachment                 | 2.90   |

## CARLIN'S FOUNDATION-CUTTER

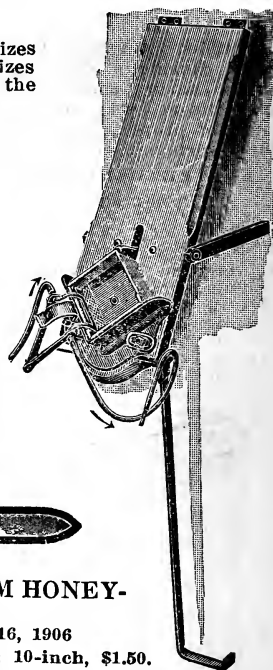
These are very convenient for cutting a great number of small pieces. The wheel should be kept hot by imersing in hot water. Carlin foundation-cutter, tin wheel, 35c.



## IMPROVED BINGHAM HONEY-KNIFE

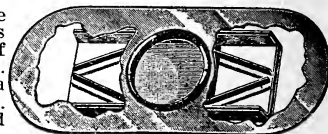
Patented November 16, 1906

$\frac{3}{4}$  lb. Price, 8 $\frac{1}{2}$ -inch, \$1.25; 10-inch, \$1.50.



## PORTER BEE-ESCAPES

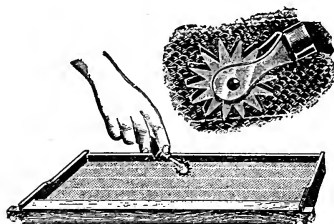
In taking off honey the bee-escape is the greatest labor-saver ever invented. It frees the supers of bees so that no shaking of heavy supers nor smoking is necessary. Moreover, there is no need of receiving a single sting, and robbing cannot get started. When placed between the super and brood chamber the escape board with either a single or double bee-escape will free the super in 12 to 24 hours. The double escape shown above has two exits, instead of one, which will allow the bees to pass out in case one exit should become clogged. All Porter escapes fit same size hole in board.



|  | Weight | Each   | Dozen  |
|--|--------|--------|--------|
| Porter single escape without board             | 1 oz   | \$0.60 | \$2.10 |
| Porter double escape without board             | 1 oz.  | .23    | 2.30   |
| Porter board with single escape, nailed        |        | .55    | 4.00   |
| Porter board with double escape, nailed        |        | .60    | 5.50   |
| Hodgson ventilated escape-board without escape |        | .60    | 5.50   |
| Hodgson ventilated escape-board—double escape  |        | .80    | 7.50   |

## SPUR WIRE-IMBEDDER

This is an excellent device for imbedding the wires of frames into the sheets of foundation. Price, 35c.



## SIZES AND PRICES OF EXCLUDERS OR HONEY-BOARDS

| Name and size of honeyboard | Size                 | Price of 1 | Price of 10 |
|-----------------------------|----------------------|------------|-------------|
| 8-fr. 7-wire and wood       | 13 $\frac{1}{2}$ x20 | \$0.80     | \$7.75      |
| 10-fr. 7-wire and wood      | 16 $\frac{1}{2}$ x20 | .85        | 8.25        |
| 8-fr. wood bound zinc       | 13 $\frac{1}{2}$ x20 | .55        | 5.25        |
| 10-fr. wood bound zinc      | 16 $\frac{1}{2}$ x20 | .65        | 6.25        |

## PRICE LIST OF ALLEY TRAPS AND ENTRANCE GUARDS

|                     | 1      | 10     |
|---------------------|--------|--------|
| Wire Alley trtarp   | \$0.80 | \$7.75 |
| Wire entrance guard | .30    | 2.50   |

## A B C and X Y Z of BEE CULTURE

Cloth 7x10 inches. Price, \$2.75.

## THE BEEKEEPERS' FIFTEEN-CENT LIBRARY

The following books are neatly bound in paper, 4 $\frac{1}{2}$ x6 inches, well illustrated—fine for beginners. Price, 15 cents each, postpaid.

**Answers to 150 Questions Commonly Asked on Bees.**—By the editors of Gleanings in Bee Culture. It's crammed with practical points. 72 pages, indexed.

**Beekeepers' Dictionary.**—Just what the name indicates—a glossary of the technical terms used in the literature of apiculture.



**Habits of the Honeybee.**—By E. F. Phillips, Ph. D., in charge of the agricultural investigations of the U. S. Government.

**Feeds and Feeding.**—By E. R. Root. Various ways of making feeds and the feeders to use. 32 pages.

**Building up Colonies.**—Plain instructions on getting colonies in shape for the honey flow. A hand book for spring.

**Spring Management of Bees.**—A companion to "Building up Colonies."

**Wintering Bees.**—A late booklet by E. R. Root.

**The Truth About Sweet Clover.**—A. I. Root has compiled a large number of articles and letters on personal experiences with this new forage crop. 144 pages.

**The Use of Honey in Cooking.**—64 pages.

## REGULAR SHIPPING CASES

All our cases are single tier for 24 sections. When in flat, nails and two-inch glass strips with grooved wood strips and end blocks are included.

Safety cases include a safety carton for each section, corrugated paper lining, and paper tray for bottom. Rubber bands are not included at prices quoted.

## REGULAR SHIPPING CASES

| Size of Section                                     |        | In flat with glass, in lots of |        |         |
|---|--------|--------------------------------|--------|---------|
|   |        | 1                              | 10     | 100     |
| 4 $\frac{1}{4}$ x 4 $\frac{1}{4}$ x 1 $\frac{1}{8}$ | C53112 | \$0.60                         | \$4.85 | \$46.20 |
| 4 $\frac{1}{4}$ x 4 $\frac{1}{4}$ x 1 $\frac{1}{2}$ | C53122 | .55                            | 4.40   | 42.00   |
| 4 $\frac{1}{4}$ x 4 $\frac{1}{4}$ x 1 $\frac{1}{8}$ | C53212 | .85                            | 7.65   | 74.30   |
| 4 $\frac{1}{4}$ x 4 $\frac{1}{4}$ x 1 $\frac{1}{2}$ | C53222 | .80                            | 7.20   | 70.00   |

**BEEKEEPER'S SUPPLIES—Continued****MANUM SWARM-CATCHER**

This is one of the best and most practical devices ever invented for the catching of swarms. It consists of a wire-cloth basket with a lid to close it, attached to a 12-ft. pole with two metal rods at the lower end forming a tripod when extended. Swarm-catcher without pole, \$2.10.

**SCRAPING KNIVES**

This scraping-knife with a 4-inch blade of best tempered steel will be found very useful if one is troubled with burr-combs in the hives. Scraping-knife, 4-in. blade, 30 cents.

**BEE-BRUSH**

This brush is made of genuine horse-hair bristles and is the best bee-brush we sell for freeing combs of bees. One was used a whole season in extracting over twenty tons of honey; was washed out repeatedly, and at the end of the season showed very little wear. Price:

With black bristles.....7 oz. \$0.45  
With white bristles.....7 oz. .35

**THE ROOT BEE-VEILS**

The Root bee-veils contain each 1½ yards of silk tulle, cotton tulle, or mosquito-bar, or of cotton tulle with a silk face, as listed below.

**PRICE LIST OF ROOT VEILS AND MATERIALS**

Veil, made entirely of silk tulle.....\$1.70  
Veil, cotton tulle with silk tulle face ..... 1.35  
Veil, cotton tulle thruout..... 1.25  
Veil, of mosquito-bar entirely.... 1.00

**GLOBE BEE-VEIL**

This is one of the most popular veils we sell, and where one wishes something that holds the net clear away from the face and neck, and yet allow him to wear an ordinary hat, we know of nothing better. Globe bee-veil complete with frame, 6 oz. \$1.60.

**ALEXANDER BEE-VEIL**

This veil consists of wire cloth made especially to order of bronze wire, with eight meshes to the inch, which offers very little obstruction to the eye. The top is made of muslin gathered at the center, and the bottom is of the same material made in the form of a skirt that slips loosely around the shoulders.

It is not necessary to wear hat with it, and for that reason it is very cool in summer—the coolest headgear of anything we sell. Alexander bee-veil, not postpaid, \$1.70.

**ALEXANDER FEEDER**

This is a very convenient feed. It may be left on the hives the entire season, and, while there, if there be a dearth of honey, one can very easily feed up a hundred colonies in the space of a few minutes by lifting the block at the side, pouring in the feed and replacing the block.

**ROOT SMOKERS**

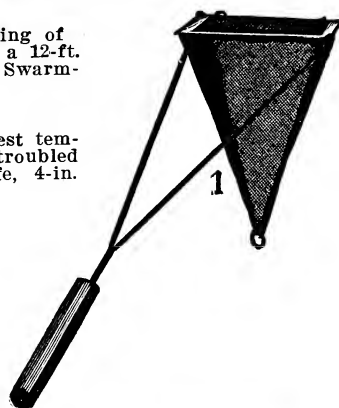
|                             |        |        |        |
|-----------------------------|--------|--------|--------|
| Jumbo tin smoker.....       | 4 -in. | 1      | 5      |
| Jumbo copper smoker.....    | 4 -in. | \$1.60 | \$7.75 |
| Standard tin smoker.....    | 3½-in. | 2.70   | 12.50  |
| Standard copper smoker..... | 3½-in. | 1.20   | 5.75   |
| Junior tin smoker.....      | 2½-in. | 2.30   | 6.25   |
|                             |        | .90    | 4.25   |

**DOOLITTLE DIVISION-BOARD FEEDER**

This is one of the most popular feeders we sell. It has the same length and depth as a brood-frame, and hangs in the brood-nest. To feed, it is only necessary to move the cover far enough to expose the feeder, and pour in the syrup from an ordinary watering can with the rose or sprinkler removed.

**PRICE LIST OF FEEDERS**

|                                    |        |      |    |
|------------------------------------|--------|------|----|
| Simplicity feeder .....            | \$0.20 | 1    | 10 |
| Division-board feeder, nailed..... | 60.    | 5.75 |    |
| Boardman feeder with cap only..... | .30    | 2.75 |    |
| Miller feeder, in flat.....        | .55    | 5.25 |    |
| Alexander feeder, complete.....    | .40    | 3.75 |    |



**NICKLED STEEL HIVE TOOL**  
Regular length, 7-in.....65c  
Extra long, 10-in.....75c



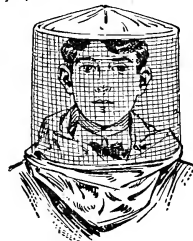
**Bee Gloves**  
Bee-gloves with fingers, \$1.05.



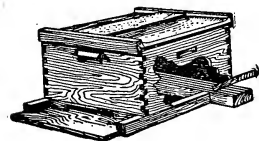
FLAT STEEL HOOP  
TO KEEP VEIL  
AWAY FROM FACE



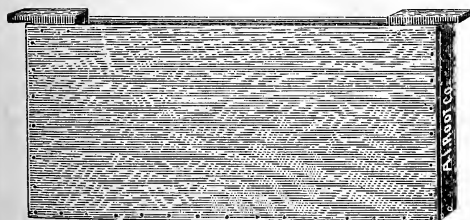
Globe



Alexander

**SIMPLICITY FEEDER**

This feeder may be placed over the brood-frames, or in the brood-nest itself, if a couple of frames are removed.

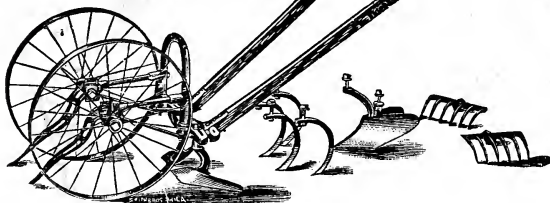


Doolittle

# Iron Age Garden Implements

## NO. 301 DOUBLE AND SINGLE WHEEL HOE

Packed weight, 40 lbs.

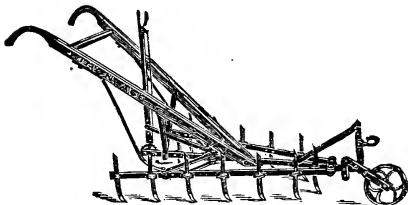


|   |         |
|---|---------|
| No. 301-R, Complete (like cut).....           | \$13.00 |
| No. 301 Like cut without Rakes.....           | 12.00   |
| No. 303 With Side Hoes only.....              | 8.75    |
| No. 313 With Side Hoes and Teeth.....         | 10.50   |
| No. 327 Same as 301, except it has discs..... | 14.00   |

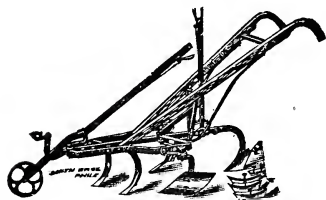
## NO. 304 COMBINED HOE AND SEED DRILL



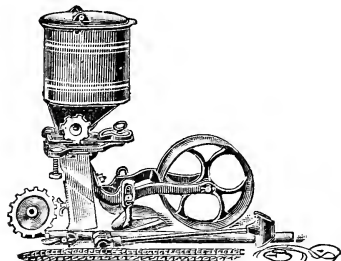
No. 304, Same tool as No. 306, except does not drop in hills, \$21.00.  
No. 318, Drill Seeder only, \$15.00.



|  |         |
|--|---------|
| No. 1014 E. P., price with lever expander as in cut..... | \$12.25 |
| No. 1014 E., price without wheel.....                    | 11.25   |
| No. 1013, price, plain without wheel or lever .....      | 9.00    |



|  |         |
|--|---------|
| No. 600. E. L. HORSE HOE Complete (like cut).....        | \$13.75 |
| No. 600 E. P., like 600 E. L., but with plain wheel..... | 12.75   |
| No. 607 E. P., like 600 E. L., without side plows.....   | 12.75   |



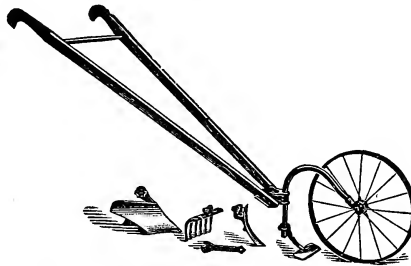
SEEDER ATTACHMENT  
Fig. 333. Drill only. Price, \$9.50.  
Fig. 334. Hill and Drill. Price, \$10.50.

RAISE A  
FREIGHT SAV-  
ING YEAR  
AROUND  
GARDEN

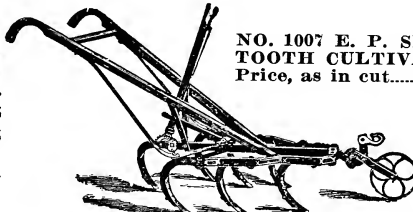


NO. 306 R. COMBINED DOUBLE AND SINGLE WHEEL HOE, HILL AND DRILL SEEDER. Packed wt. 75 lbs., price \$23.00.

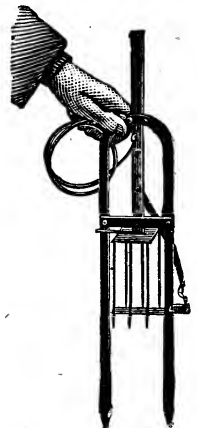
|   |         |
|---|---------|
| No. 306 as cut, except no rakes.....              | \$22.00 |
| No. 316 Hill and Drill Seeder only, no tools..... | 16.00   |



|  |        |
|--|--------|
| No. 11, like cut with plow only.....     | \$5.00 |
| No. 12, complete (like cut) 4 tools..... | 6.25   |



NO. 1007 E. P. SEVEN TOOTH CULTIVATOR  
Price, as in cut.....\$12.00



## LITTLE GIANT MOLE TRAP

Most simple and best trap on the market. Fully guaranteed to give satisfaction. Price, 90c each; postpaid.

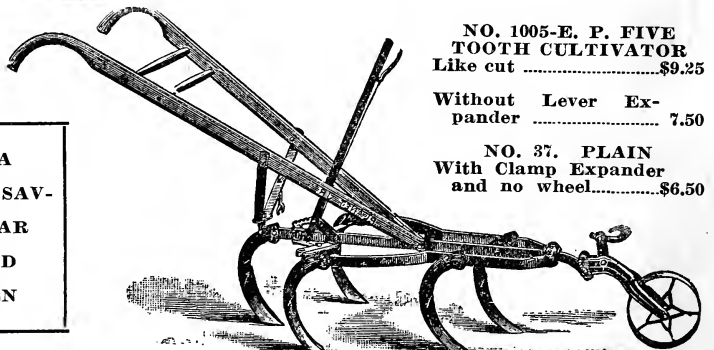


## NO. 19C WHEEL PLOW AND CULTIVATOR

The wheel is made of steel, 24 inches high, and is very strong. The tire is 1 inch in width. The frame is made of steel throughout. The handles are made of best oak.

|                                   |        |
|-----------------------------------|--------|
| Price complete with 5 tools ..... | \$6.50 |
|-----------------------------------|--------|

A LITTLE TIME  
IN THE GARDEN  
MORNINGS AND  
EVENINGS IS  
HELPFUL AND  
INTERESTING.



NO. 1005-E. P. FIVE TOOTH CULTIVATOR  
Like cut ..... \$9.25 |

|                              |      |
|------------------------------|------|
| Without Lever Expander ..... | 7.50 |
|------------------------------|------|

NO. 37. PLAIN  
With Clamp Expander and no wheel.....\$6.50

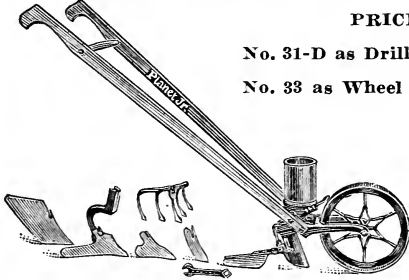
# Planet Jr. Garden Tools

NO. 31 PLANET JR. COMBINED DRILL, SEEDER, NO. 4 PLANET JR. COMBINED HILL AND DRILL WHEEL HOE, CULTIVATOR AND PLOW

PRICE \$13.00

No. 31-D as Drill Seeder only \$10.50

No. 33 as Wheel Hoe only..... 6.50



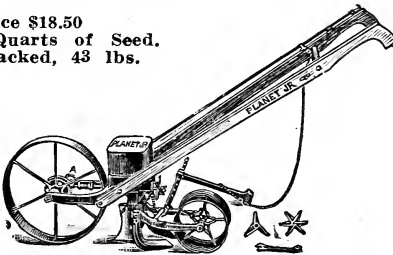
New last year. An accurate seeder and a first class single wheel hoe at a low price.

NO. 3 PLANET JR. HILL AND DRILL SEEDER

Price \$18.50

Holds 3 Quarts of Seed.  
Weight, packed, 43 lbs.

A favorite among onion growers, market gardeners and seedmen.



NO. 12 DOUBLE WHEEL HOE, CULTIVATOR AND PLOW. Price, \$12.50.  
Weight 33 lbs.

We offer these Wheel Hoes as the highest type of their class. They have a great variety of tools which adapt themselves to a

large variety of work, and there is scarcely any garden culture of which they are not capable.

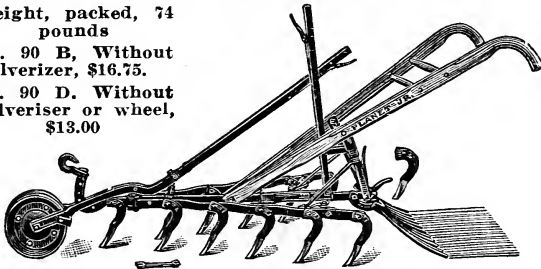
PLANET JR. TWELVE-TOOTH HARROW, CULTIVATOR AND PULVERIZER

No. 90 Complete, with Steel Wheel, \$20.00

Weight, packed, 74 pounds

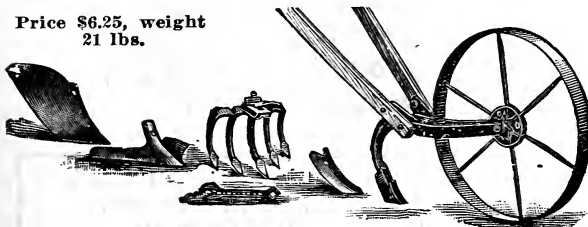
No. 90 B, Without Pulverizer, \$16.75.

No. 90 D, Without pulveriser or wheel, \$13.00



NO. 19 PLANET JR. SINGLE WHEEL HOE CULTIVATOR AND PLOW

Price \$6.25, weight 21 lbs.



This attractive implement is especially designed for the farmers' garden work. It is a cheap and effective tool for wheel hoe operations.



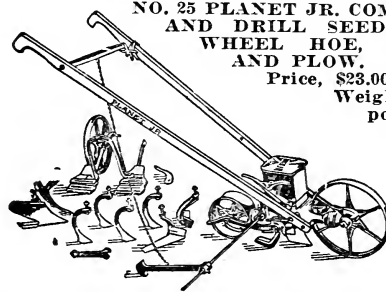
Price, Complete, \$19.50  
Weight, 50 lbs.

As a Seeder only, \$15.50  
Holds 2½ quarts of seed. Plants in hills, 4, 6, 8, 12, or 24 in. apart. For use as a cultivator, the drill parts are removed and the tool frame substituted by changing but one bolt; it is then a perfect single wheel hoe, with a variety of tools.

NO. 25 PLANET JR. COMBINED HILL AND DRILL SEEDER, DOUBLE WHEEL HOE, CULTIVATOR AND PLOW.

Price, \$23.00.

Weight, packed 61 pounds. Holds 2½ Quarts of Seed.

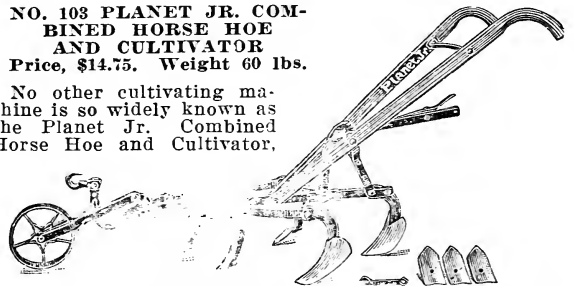


The simplicity of this tool, both as a seeder and as a wheel hoe, makes the combination thoroughly practical. Two acres a day can easily be worked with this implement.

NO. 103 PLANET JR. COMBINED HORSE HOE AND CULTIVATOR

Price, \$14.75. Weight 60 lbs.

No other cultivating machine is so widely known as the Planet Jr. Combined Horse Hoe and Cultivator.



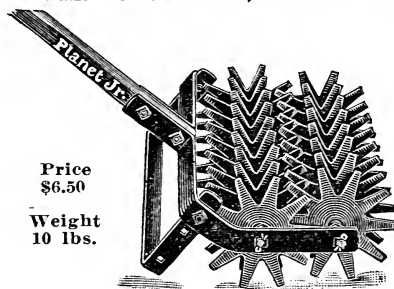
for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain yet it is light and easy to handle.

STAR PULVERIZER, LEVELER AND WEEDER

This tool is especially adapted for preparing the seed bed much more thoroughly and rapidly than any other garden rake. The rear blade cuts 13½ inches. Levels the ground perfectly. It is a fine tool to use after the crop is started, breaking the crust, cutting off the weeds and leaving a fine mulch. It works equally well forward or backward.

Price \$6.50

Weight 10 lbs.



Price, \$6.50 by express or freight.

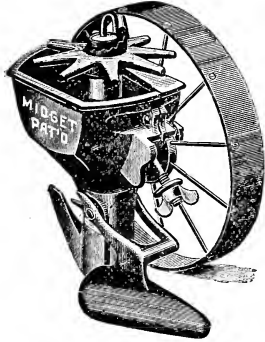
FOR COMPLETE LIST OF FERTILIZERS  
SEE PAGE 86

## Miscellaneous Tools

### A NEW MIDGET DRILL Sows All Seeds

This is just the drill for the little garden. It stands about 8 inches high and will sow a 5c package of seed juse as well as larger amounts. Can be attached to a wooden handle and used in a hot bed or green house. Hopper holds 1 pint. The machine is made as good as larger ones. Index shows how to set.

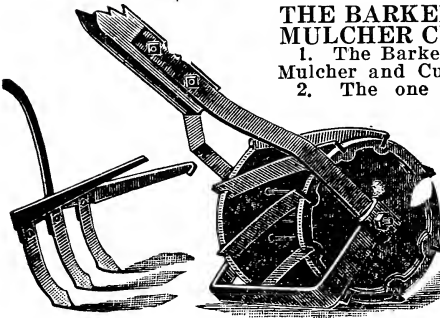
It can be attached to a No. 20 Standard Wheel Hoe.



Midget Drill  
Price \$4.10

### THE BARKER WEEDER MULCHER CULTIVATOR

1. The Barker is a Weeder, Mulcher and Cultivator.
2. The one machine performs the three operations.
3. Weeding and Mulching is done in one operation.
4. By adjusting shovel attachment the Barker becomes a cultivator.



### OUR GUARANTEE

We fully guarantee both material and workmanship of the Barker Weeder Mulcher and Cultivator for a period of FIVE YEARS from date of purchase, and will make good any defective parts without cost to purchaser.

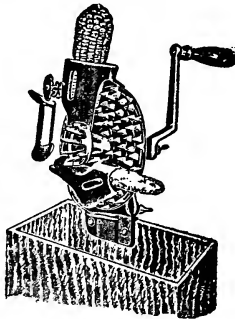
### SIZES AND PRICES

All Barkers work on the same principle. They differ only in the width of the strip cultivated.

|  |               |
|--|---------------|
| No. 6D. Strip 6 in. wide.....                  | Price, \$7.00 |
| No. 8D. Strip 8 1/2 in. wide.....              | Price, 8.25   |
| No. 10D. Strip 10 in. wide.....                | Price, 9.35   |
| No. 11D. Strip 11 in. wide.....                | Price, 10.15  |
| No. 66D. Strip 6 in. wide on each side of row. |               |
| Two 6 D's bolted together.....                 | Price, 14.00  |

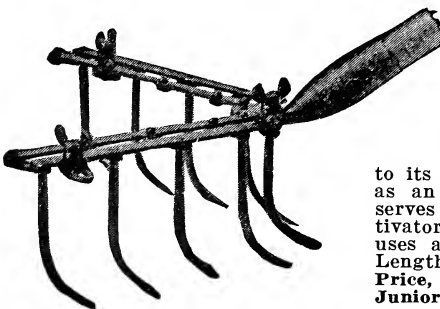
### COMBINED TIPPER AND SHELLER

This is just the machine you have been looking for. It butts and tips your corn and then shells it. Also has an attachment for shelling pop corn. These machines are well made, extremely handy. You can more than pay for one by shelling and tipping your seed corn and then have it for next year. ..Price, complete, \$1.50.



### THE PULL EASY GARDEN CULTIVATOR

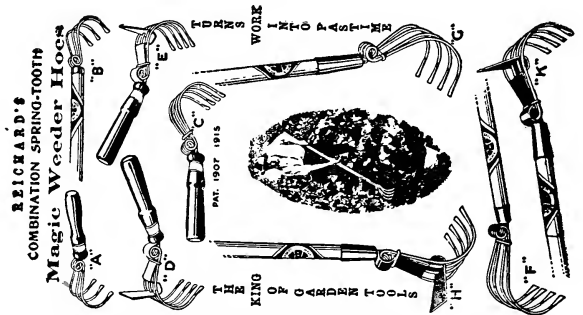
This handy little garden tool is adjustable to any width. A patented groove slide, secured by handy thumb screws, allows the working width of the cultivator to be varied from 7 to 18 inches. When the plants are young, the middle tooth can be removed by the simple loosening of a thumb screw, allowing the plants to be straddled and two rows worked at once. When spread out to its full width it can be used as an ordinary rake. Since it serves as both a rake and a cultivator it can be put to many uses about the yard or garden. Length of handle is 4 1/2 feet. Price, Garden Cultivator, \$1.50; Junior Cultivator, 60c; by express.



NO. 20 STANDARD  
WHEEL HOE  
Price \$5.00

### MIDGET DRILL AND HOE

This cultivator has 5 combined tools as shown in cut. Is light, yet strong. All tools made of steel as hard as a saw and nicely polished. Strong, tangent spokes, 24-inch wheel. Price, Wheel Hoe and Midget Drill Combined, \$8.50.



### MAGIC WEEDER AND HOE

The best garden tool on the market. It does the work with half the labor, saving both time and strength. The tongs are formed so as to enter the ground the same as a garden plow, lifting and pulverizing the soil, leaving a dust mulch, thereby holding the moisture, which is so essential to the rapid growth of young plants. From the picture you get an idea of the different styles.

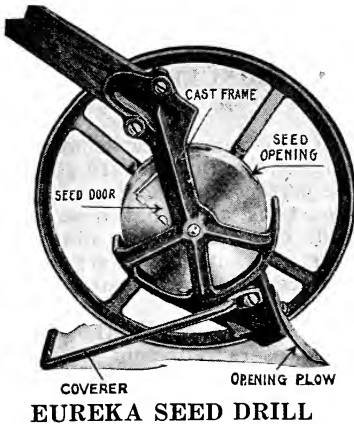
|                             |                         |      |
|-----------------------------|-------------------------|------|
| Price, No. A; postpaid..... | 20c; not postpaid.....  | 15c  |
| Price, No. B; postpaid..... | 25c; not postpaid.....  | 20c  |
| Price, No. C; postpaid..... | 35c; not postpaid.....  | 25c  |
| Price, No. D; postpaid..... | 50c; not postpaid.....  | 40c  |
| Price, No. E; postpaid..... | 50c; not postpaid.....  | 40c  |
| Price, No. F; postpaid..... | 60c; not postpaid.....  | 50c  |
| Price, No. G; postpaid..... | 90c; not postpaid.....  | 75c  |
| Price, No. H; postpaid..... | 1.25; not postpaid..... | 1.00 |
| Price, No. K; postpaid..... | 1.25; not postpaid..... | 1.25 |

**LANG'S  
HAND  
WEEDER**  
HANDIEST  
TOOL  
ON EARTH.

Price, postpaid, 35c; not postpaid, 25c.

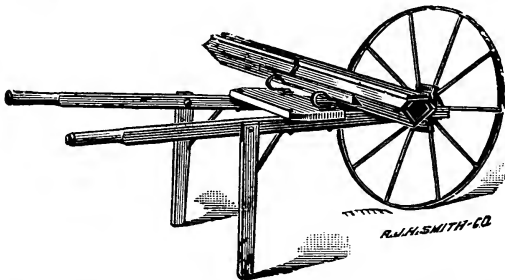
FOR ALL KINDS OF POUL-  
TRY SUPPLIES SEE  
PAGES 80-84

On this page you will find listed different kinds of planting tools. Next to good seed there is nothing so essential to a crop as good planting tools. They save seed by distributing it evenly, thus insuring an even stand. We sell each and every tool shown here on a positive money back guarantee. If they do not do everything we claim for them we cheerfully refund your money.



**EUREKA SEED DRILL**

It will sow and cover Beets, Cabbage, Carrots, Celery, Lettuce, Onions, Radishes, Spinach, Turnips, and all such seeds with the greatest regularity, much better and faster than hand work. It is not a toy, but a strong, practical machine. Of course, when you have a large garden you will want our Iron Age Drill, but for a few vegetables the Eureka is superb. It is the only machine suited to sow in a hotbed. Sows the smallest packet of seeds as well as a large bulk. Price, \$1.75 postpaid. By express, \$1.50.



**MICHIGAN WHEELBARROW SEEDER**

It is the original of its kind, and is the result of 30 years' experience in the seeder business. It has all the good qualities that any other seeder has, and many superior ones.

Saves seed, labor, and insures an even catch.

**The Springs:** One of the latest improvements is the placing of springs under the seed box. These prevent loss of seed from jarring when machine is used on frozen or rough ground. They also cause the machine to run easier, on the same principle that a spring wagon runs easier than one without springs.

**The Wheel:** We use a steel wheel, built bracing like a bicycle wheel. They are 30 inches in diameter and the tire is 1 1/2 inches wide. They are also reversible and all wear is easily taken up. There is but little strain on our wheels for the feed motion is taken from the hub instead of from the spokes.

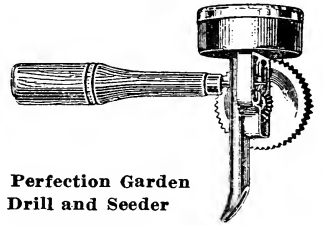
**The Feed Rolls:** Our feed roll has a steel center with waterproof coating. They have a positive motion their entire length and are not affected by the weather. They never require any changing or adjustment.

Order **THE MICHIGAN** and You Will Get the Best, a Seeder That Will Sow Both Heavy and Chaffy Seeds. Price, No. 22—12 ft., \$9.00; No. 24—14 ft., \$20.00; No. 25—14 ft., \$10.75.

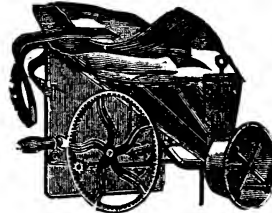
Here is a time and labor saver adapted for all kinds of small garden seeds. It is alike useful in home gardens or hothouses. The Perfection Drill and Seeder is simple, practical and rapid in operation.

The seed is sowed at just the right depth—at the proper equal distances apart—and with the correct amount of seed in each spot.

This handy tool is as much ahead of hand sowing as a corn planter is ahead of planting corn by hand. Price, \$2.00, postpaid; by express, \$1.85. ....



**Perfection Garden Drill and Seeder**

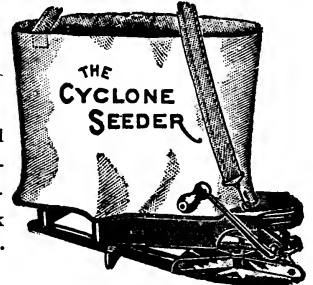


**CAHOON SEEDER**

The best machine of the kind in the market. The grain is held in a tight sheet-iron hopper, surrounded by a bag which will hold a bushel of seed. Price, \$5.00, by express.

**CYCLONE SEEDER**

Simple in construction and easy of operation; has automatic regulator and cut-off, and performs its work perfectly. It is practical. Price, \$2.00; by express.



**We are agents for Myers Spray Pumps. The world's best. See pages 63 to 65.**

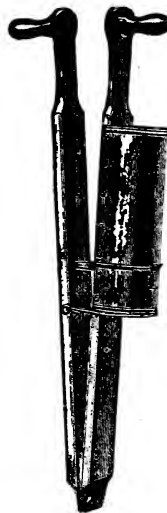
**CORN PLANTERS**

No. 1. Good, reliable two-hand planter. Price., by freight or express, \$1.50.

No. 2. Segman one-hand corn planter, adjustable for planting all kinds of corn. Has pumpkin seed attachment, is well made in every way.

Price, by freight or express, \$1.75.

SEED CORN LISTED ON PAGE 33.



No. 1



No. 2

**Bear this in mind. Tools and Implements listed in this catalog are sold on a positive money back guarantee.**

# POULTRY SUPPLIES

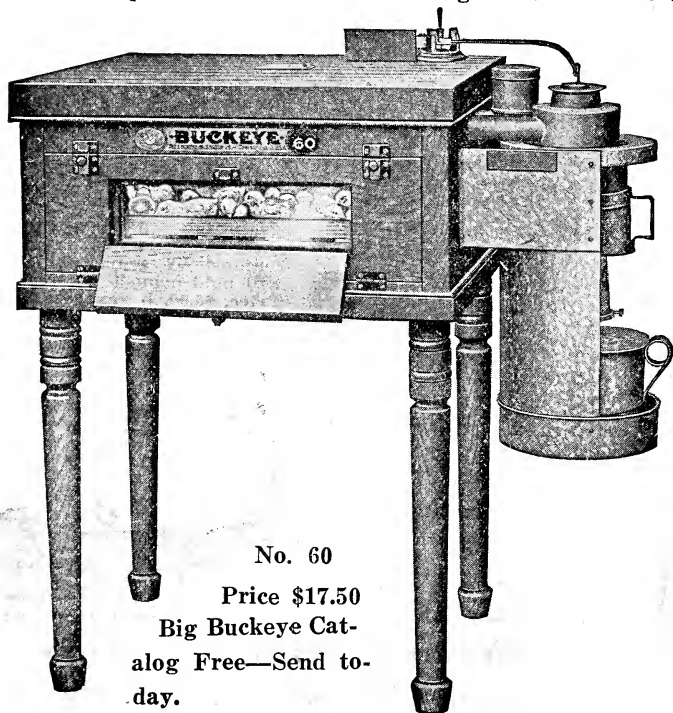
## BUCKEYE INCUBATORS, Sold on 40 Days' Trial

WITH AN ABSOLUTE GUARANTEE TO HATCH EVERY HATCHABLE EGG  
THIS IS A GUARANTEE THAT MEANS SOMETHING

The Buckeye is GUARANTEED to hatch MORE CHICKS and STRONGER CHICKS than any other Incubator.

It is further guaranteed:—

To require no artificial moisture. To operate satisfactorily in any temperature down to freezing, and to require no attention to the regulator from the time a hatch is started until it is finished.



No. 60

Price \$17.50

Big Buckeye Catalog Free—Send to-day.

The perfect construction of all its mechanical parts is also guaranteed, and any Incubator or part thereof that does not fulfill our guarantee in every particular, will be replaced without question any time within 40 days.

Over four hundred thousand (400,000) satisfied users represent the proof that we offer in support of Buckeye superiority—little breeders, big breeders, beginners, experts—breeders that include every class from boys and girls with a little 60-egg machine—up to the tremendous poultry plants with capacities of 50,000 eggs and more—all uniting in the same verdict.

It is no longer considered a feat to build an incubator that will hatch "some" chickens from "some" the eggs placed in it (there are many such incubators on the market), but the truly successful incubator is the MACHINE THAT WILL HATCH A CHICKEN FROM EVERY HATCHABLE EGG—the vigorous kind of chicks that start to grow the moment they are hatched, and continue to grow without forcing or doctoring.

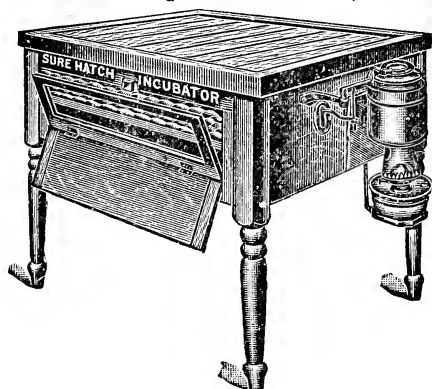
THAT'S THE KIND OF HATCHES THE BUCKEYE PRODUCES, and has been producing for twenty-five years. That's why we have been able to sell over four hundred thousand Buckeyes to all kinds of people.

### BUCKEYE PRICE LIST

|  |         |  |       |
|--|---------|--|-------|
| No. 14, Style E—Capacity 60 Eggs.....  | \$12.00 | No. 1, Standard—Capacity 110 Eggs..... | 27.50 |
| No. 15, Style H—Capacity 60 Eggs.....  | 16.50   | No. 2, Standard—Capacity 175 Eggs..... | 32.50 |
| No. 16, Style E—Capacity 110 Eggs..... | 20.50   | No. 3, Standard—Capacity 250 Eggs..... | 42.50 |
| No. 17, Style E—Capacity 200 Eggs..... | 27.50   | No. 4, Standard—Capacity 350 Eggs..... | 52.50 |
| No. 60, Standard—Capacity 60 Eggs..... | 19.50   | No. 5, Standard—Capacity 600 Eggs..... | 75.00 |

### SURE HATCH INCUBATOR

The best hatcher built for the money. For the past several years we have had more or less calls for a medium priced incubator, but as we will not sell a thing that we cannot guarantee it took us a long time to find one that measured up to the specifications desired. We had our eyes on one a long time before we could get the agency. We have known for a long time that the SURE HATCH is the best incubator built for the money, but this is the first year we could get the agency, so we offer you now the SURE HATCH INCUBATOR, believing that if you buy one you will be well pleased.



The sides and ends of the Sure Hatch incubators are made with two distinct walls of redwood. The space between these two walls is air-tight to provide a dead air space for insulation.

The heating is done with the hot water system. The tank and the heater are both made of the best Pure Lake copper, which will last many years. An incubator to be of good service must have a strong heating devise to warm the machine to the proper temperature during the cold weather, which is the most profitable time for setting the machine.

### SURE HATCH PRICES

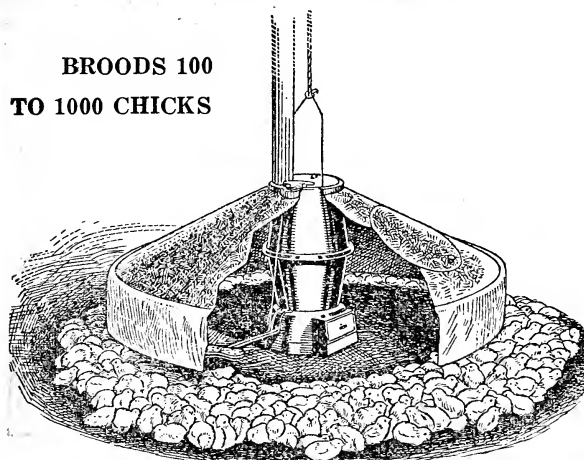
|  |         |  |        |
|--|---------|--|--------|
| No. 100, 100 to 120 Egg, Complete with all Fixtures..... | \$22.00 | No. 200, 200 to 220 Egg, Complete with all Fixtures..... | \$1.00 |
| No. 150, 150 to 170 Egg, Complete with all Fixtures..... | 27.00   | No. 250, 200 to 220 Egg, Complete with all Fixtures..... | 33.50  |

OUR GUARANTEE PUTS IT STRICTLY "UP TO THE INCUBATOR"

## POULTRY SUPPLIES—Continued

**The Standard Colony Brooder**

(Patented July 4, 1916)

**THE MOST REMARKABLE COAL BURNING BROODER EVER INVENTED****Self-Feeding, Self-Regulating, Simple, Safe, Everlasting****GUARANTEED OPERATING COST LESS THAN SIX CENTS A DAY**

**BROODS 100  
TO 1000 CHICKS**

Showing a Standard Colony Brooder in Operation With  
1050 Chicks

This year for the first time we are enabled to offer this Brooder in two sizes. They are exactly alike. The small one works just as satisfactorily as the large one. Price, No. 18, hovers 50 to 500 chicks, \$19.00; No. 19, hovers 100 to 1,000 chicks, \$23.50.

Makes Three Chickens Grow where One Grew Before.

Cuts the Cost of Equipment to Less Than Half.

Cuts the Cost of Operation to Less Than Half.

Reduces the Time and Labor to Less Than a Fourth.

Guaranteed to Raise More Chicks and Better Chicks.

Nothing to Break. Nothing to Wear Out

This type of brooder can be satisfactorily operated in any locality or under any conditions. The especially built coal-burning stove for brooding purposes is selfregulating. The whole apparatus has one adjustable nut and not even a thermometer is necessary. It burns any kind of coal, is self-feeding and is guaranteed to run more than 12 hours in any weather on one filling of coal at an average cost of less than 6c per day. The coal is poured in at the top of the stove. It is fire-proof, and is so simple that a boy or girl can operate it.

The air is always pure and fresh. There is no damper or valve of any kind between the smoke stack and the fire draft. It is controlled by an ingenious device that makes them unnecessary. The fresh air is provided by the automatic action of the draft on the stove.

## **“BUCKEYE” PORTABLE BROODERS The Oil Burning Brooders**

**With All the Desirable Features of the Modern Coal Burner**

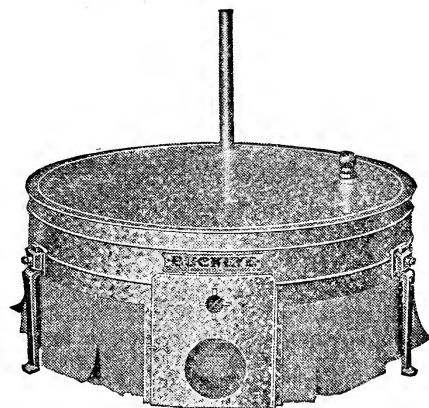
- GUARANTEED** to be absolutely free from all gases or odors and to provide a circulation of pure, fresh air every minute in the day.
- GUARANTEED** to raise more chicks and bigger chicks than any other oil-burning brooder.
- GUARANTEED** to furnish an abundance of heat in any temperature down to freezing.

**BUILT IN THREE SIZES**

**No. 20**  
Diameter 19 Inches  
Capacity 60 Chicks  
\$8.50

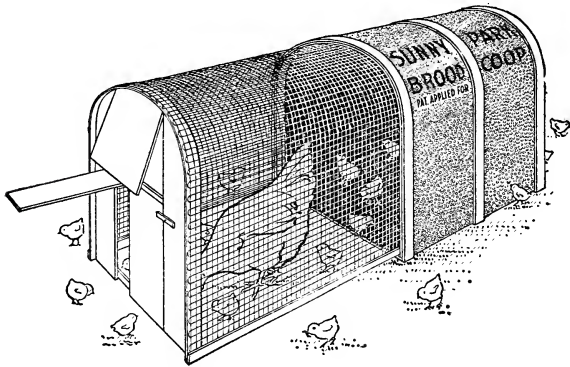
**No. 21**  
Diameter 22 Inches  
Capacity 100 Chicks  
\$10.50

**No. 22**  
Diameter 30 Inches  
Capacity 150 Chicks  
\$13.50

**SOLD ON 30 DAYS' APPROVAL****AND YOU WRITE YOUR OWN MONEY BACK GUARANTEE**

## POULTRY SUPPLIES—Continued

## SUNNY PARK BROOD COOPS



Since metal of all kinds has become so scarce and high priced we have been casting about for cheaper though good material out of which to make a brood coop, so we can furnish our customers with a serviceable coop at much less cost. We are glad to say we have found it. We offer you a Parking Coop, as shown in cut, made of an indestructible Composition Material that affords absolute protection from rain, and snow, keeping the chicks dry under all weather conditions. Has removable bottom for easy cleaning, and the price is only a little more than one-half the price of a metal parking coop. Price, \$2.00 each; 6 for \$11.00.

## NON-PARKING BROOD COOP

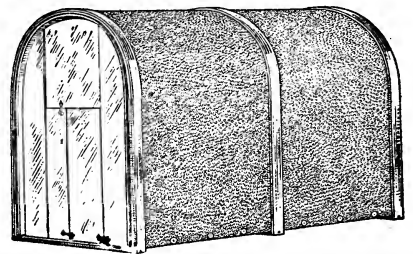
Anyone desiring a high grade coop without a Park, can find nothing that will equal our Non-Parking Coop, as shown in the cut below.

Made from the same materials as our "Sunny Park" Coop which insures its lasting qualities. The doors are arranged so as to let the chicks out and keep the hen in, same as our "Sunny Park" Coop.

Has ventilators in both ends so the brood can always have fresh air without being chilled.

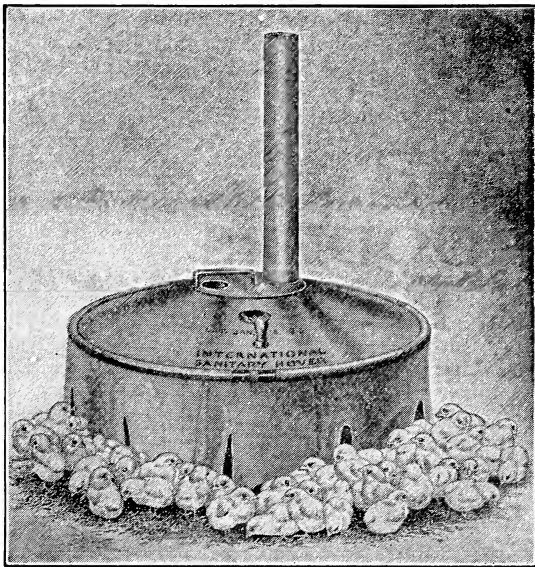
Size 18x19½x24 inches.

Inside of coop treated to make it louse proof. Has remarkable bottom for easy cleaning. When you send your order for Non-Parking Coops do not fail to include one or more of our Parking Coops. They can both be shipped together nicely. Shipped knocked down in strong crates, which insures safe delivery. Price, each \$1.50, 6 for \$8.00.



## INTERNATIONAL

## SANITARY HOVERS

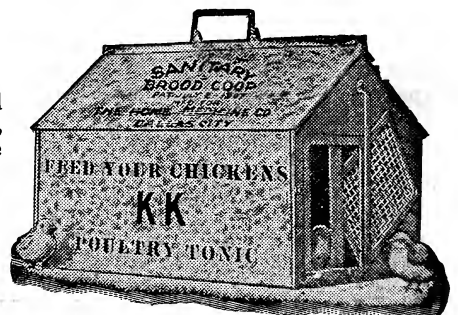


International Sanitary Hover

The International Sanitary Hovers have stood every climatic test from Panama to Quebec. Practical Poultrymen, state experiment stations, and poultry judges endorse them. You can raise chicks anywhere with International Sanitary Hovers. No specially constructed houses are necessary. There is no place better than in your regular hen house. Sanitary Hovers are as practical for the small backyard poultry raiser as for the large poultry farms. They are ready for business wherever placed. No crowding or smothering chicks—no kneeling in mud to get at the lamp. You want the best brooding device—you will get it in the Sanitary Hovers... Price, \$9.50 each; by express or freight.

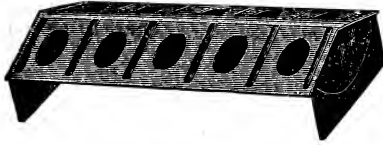
## SANITARY BROOD COOP

Made of galvanized iron, it is mite, rat, weazel, mink and skunk proof. It can be taken down and put up in 40 seconds, the bottom can be removed for cleaning without taking the coop apart. It has three doors hung on one pivot; the first a slat door which lets the chicks out; the second, of one-half inch wire netting, for use on hot nights; the third is of solid iron for cold and stormy weather. The coop is well ventilated but is entirely rainproof. It is approximately 18x24 inches square and 16 inches high. It can be carried with one hand to any convenient location. Price, each \$2.25; 6 for \$13.00; by express.



## POULTRY SUPPLIES—(Continued)

### CHICK FEED TROUGH



These troughs are very convenient for feeding flocks of growing chicks. Trough is made on a half circle so that every bit of feed can be easily eaten out of it.

- Made in two sizes, 10-inch and 20-inch
- |                                |     |
|--------------------------------|-----|
| 10-inch trough with grate..... | 35c |
| Shipping weight 1½ lbs.        |     |
| 20-inch trough with grate..... | 50c |
| Shipping weight 2 lbs.         |     |

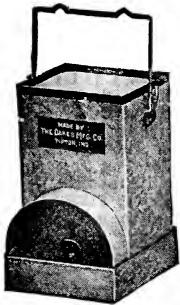
### CHICK GRIT AND SHELL BOX

Growing chicks should have grit, oyster shell and charcoal always before them; and for this purpose our Chick Grit and Shell Box is indispensable. It is made of galvanized steel with three compartments. Height 7½ inches; width 6 inches; depth (front to back), 4 inches at bottom and 2 inches at top.

Price (shipping weight, 2 lbs.), 60c. Large size for grown fowls (shipping weight 4 lbs.), \$1.00.



### DROP BOTTOM FOUNTAIN



In this style of Drinking Fountain the pan which forms the trough from which the fowls drink is hinged at the back and fastened by a brass latch in front. The hood over the trough prevents falling dust and dirt from getting into the water; and when the bottom is turned back inside of the fount can be easily cleaned out and kept in sanitary condition.

The hole which allows the water to run from the fountain into the trough is behind the brass latch, which prevents the water from sloping out when the fountain is handled.

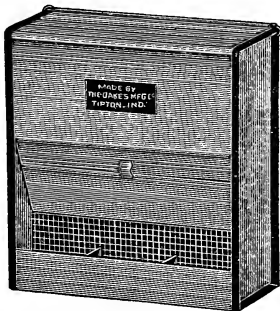
The hinge is made with a brass rod to prevent rusting. Made of No. 28 galvanized steel in three sizes.

- |                                    |        |
|------------------------------------|--------|
| 2-quart Drop Bottom Fountain.....  | \$1.15 |
| Shipping weight 2 lbs.             |        |
| 1-gallon Drop Bottom Fountain..... | \$1.80 |
| Shipping weight 5 lbs.             |        |
| 2-gallon Drop Bottom Fountain..... | \$1.60 |
| Shipping weight 3 lbs.             |        |

### RECTANGULAR CHICK FEED HOPPER

This hopper is designed for young chicks and made to either stand on the floor or ground, or hang against the wall. It is divided into three equal compartments, holding about four quarts altogether. Made of galvanized iron with hinged lid to both hopper and trough.

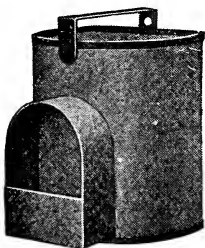
Price, each.....\$1.40  
Shipping weight 3½ lbs.



### WALL FOUNTAINS

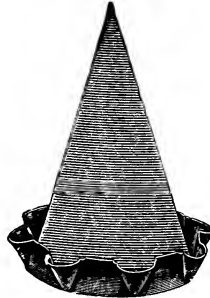
Made in three sizes, 1 quart, 1 gallon and 2 gallons. The two larger sizes have flat backs, so they can be placed horizontally on the ground for filling and also to make them rest firmly against the wall when hung up. Made of No. 28 galvanized steel with heavy strap handles and hangers.

- |                        |        |
|------------------------|--------|
| 1-quart size.....      | \$0.60 |
| Shipping weight 1 lb.  |        |
| 1-gallon size.....     | \$1.00 |
| Shipping weight 3 lbs. |        |
| 2-gallon size.....     | \$1.25 |
| Shipping weight 5 lbs. |        |



### O. K. CHICK FOUNTAIN

This fountain is galvanized throughout, and consists of two parts—a conical top which holds the water, and a fluted pan forming the base. This pan is seamless, being made from a disc of steel stamped into shape with dies.



The little "pockets" around the pan are large enough for the chicks to drink out of them nicely, but too small to allow a chick to get into them and get wet.

- |                        |     |
|------------------------|-----|
| One pint size.....     | 20c |
| Shipping weight 1 lb.  |     |
| One quart size.....    | 30c |
| Shipping weight 2 lbs. |     |

### THE "LITTLE CHICK" FEEDER SAVES THE FEED

It is made strong and durable. The frame in each end is made from substantial lumber, over which is securely fastened heavy ½-inch mesh Galvanized Wire Screen. This wire screen is neatly bound on the edges with strong Galvanized Sheet Steel. The "Little Chick" Feeder is large and roomy. Size: 6 inches high, 18 inches wide and 24 inches long.

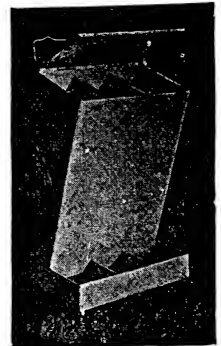
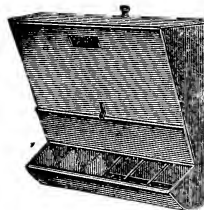
Will easily accommodate FORTY to FIFTY chicks at one feeding. Can be placed anywhere and can be moved from place to place easily. Price, \$1.25.



### GRIT AND SHELL BOX

This Grit and Shell Box has slanting front, inclined top and round bottom to trough. Just the thing to hold oyster shell, charcoal and grit for a small flock of fowls. For large flocks we recommend the Three-Compartment Hopper described on page 10.

Price of Grit and Shell Box, \$1.25. Shipping weight, 2 lbs. each.



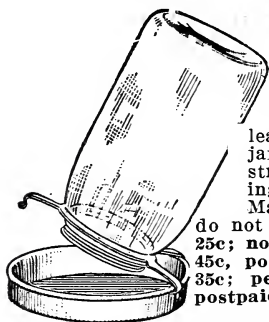
### THE HANDY DRY MASH HOPPER

The Handy Hopper is made considerably wider at the bottom than at the top, so that it is impossible for any sort of dry mash to clog in it. Feed put in this Hopper cannot be wasted for the trough is deep, making it impossible for the fowls to pile up the feed and throw it out with their bills.

### PRICE LIST

- |   |        |
|---|--------|
| No. 1 Handy Hopper, 9 inches long, one compartment.....   | \$1.65 |
| Shipping weight in fibre carton, 6 lbs.                   |        |
| No. 2 Handy Hopper, 15 inches long, one compartment.....  | \$2.00 |
| Shipping weight in fibre carton, 9 lbs.                   |        |
| No. 3 Handy Hopper, 24 inches long, two compartments..... | \$2.50 |
| Shipping weight in fibre carton, 12 lbs.                  |        |
| No. 4 Handy Hopper, 36 inches long, two compartments..... | \$3.25 |
| Shipping weight, crated, 17 lbs.                          |        |

## POULTRY SUPPLIES—(Continued)

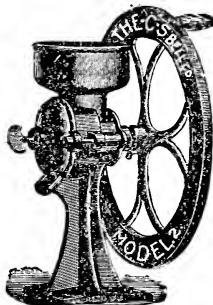


## AUTOMATIC FEEDER AND FOUNTAIN

Feeds water, grain, grit etc., automatically. Is easy to fill and operate. Just lift trigger, as shown in cut, which releases pan, clip remaining on jar, leaving pan without any obstruction, affording easy cleaning. Thus a sanitary fountain. Made to fit any Mason jar. We do not furnish jars. Price, postpaid, 25c; not postpaid, 20c each. Two for 45c, postpaid; not postpaid, two for 35c; per dozen, postpaid, \$2.00; not postpaid, \$1.50.

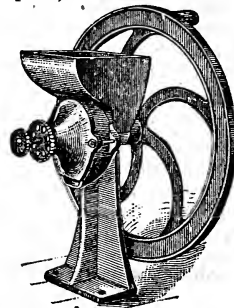
## NO. 32 HAND GRINDING MILL

In this mill are embodied all the good features of other hand grinding mills, to which have been added universal burrs or grinding plates that are adjustable for grinding coarse or fine. This machine grinds oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is a well designed machine, is strong and well made throughout and of excellent finish, has a 16-inch fly wheel, and is light running. The capacity of this mill is not equalled by any other of the same size. Shipping weight 40 lbs. Capacity, 1 to 2 bushels per hour. Price \$4.90.



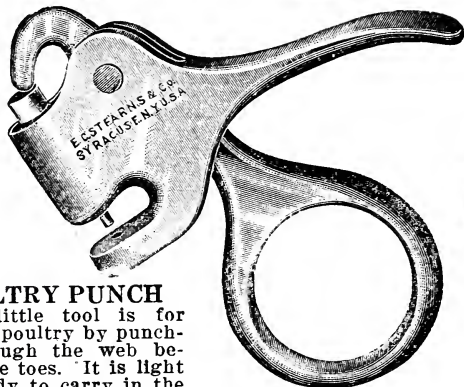
## HENFRIEND WATER FRONT

Made of very best galvanized iron, cheap, practical and durable, protected from dirt yet easy to clean; will not drown the chicks; easy to fill and carry as a pail. Keeps the water cool in summer. Filled with hot water in the morning will not freeze during the day in cold weather. A child can fill it. Price, 2½ gal. size, postpaid, 90c; not postpaid, 75c. 1 gal. size, postpaid, 65c; not postpaid, 50c; ½ gal. size, postpaid, 45c; not postpaid, 35c.



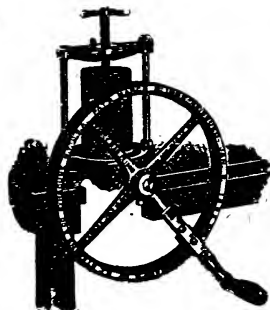
Model Mill

This has proven to be one of the best Hand Grinding Mills on the market. Grinds corn, wheat, oats, etc. Capacity ½ to 1 bu. per hour. Price, No. 1, \$3.40; No. 2, \$4.90.



## POULTRY PUNCH

This little tool is for marking poultry by punching through the web between the toes. It is light and handy to carry in the pocket. Nickel plated. Priced 40c; postpaid.



## STEARNS' BONE CUTTER

It has automatic feed; is self-cleaning; is the fastest fine cutting machine on the market; will stand more wear and tear; is least liable to get out of order; is the Only Bone Cutter that will not clog with gristle or meat. Price, \$12.00.

Write for prices of larger sizes.



## LEADER ADJUSTABLE LEG BANDS

Doz., 20c; 25 for 30c; 50 for 50c; 100 for 85c; postpaid.

## SPIREL CELLULOID LEG BANDS

Ten colors, blue, red, yellow, green white, violet, pink, orange, cerise, black. Poultry size. Any color. Be sure to state breed and sex. Price, postpaid: 12 for 20c; 25 for 30c; 50 for 50c; 100 for 85c; 500 for \$3.00; 1,000 for \$5.25.

For Pigeons and Baby Chicks. Price, postpaid: 12 for 15c; 25 for 25c; 50 for 40c; 100 for 65c; 500 for \$2.75; 1,000 for \$4.50.



Spiral 1 Fold

Pigeon and Baby Chick

This season we have added to our stock of Grinding Mills the Letz Power Mill. It has been established beyond a shadow of a doubt that it pays to grind feed for stock, and if you grind feed it pays to use the best grinder available. One that will grind wheat fine enough for bread, and also grind ear corn fine enough for stock food. We carry in stock 3 sizes.

If you wish a larger mill write for special catalog and prices.

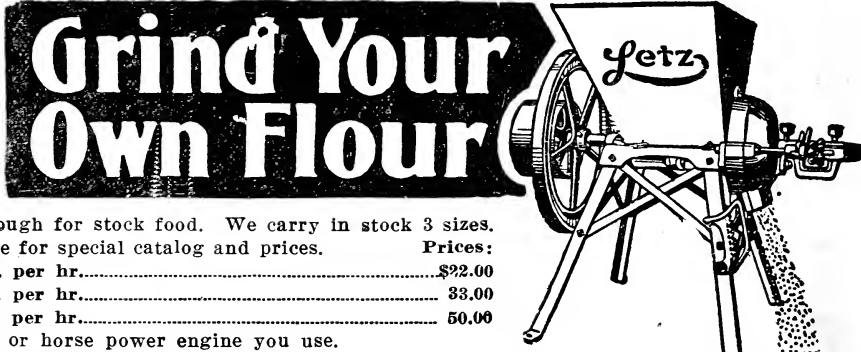
|   |         |
|---|---------|
| No. 0-33, capacity 8 to 12 bus. per hr. | \$22.00 |
| No. 6, capacity 10 to 20 bus. per hr.   | 33.00   |
| No. 9, capacity 20 to 30 bus. per hr.   | 50.00   |

Capacity depends on the size or horse power engine you use.

## TWELVE REASONS WHY YOU SHOULD BUY THE LETZ MILL

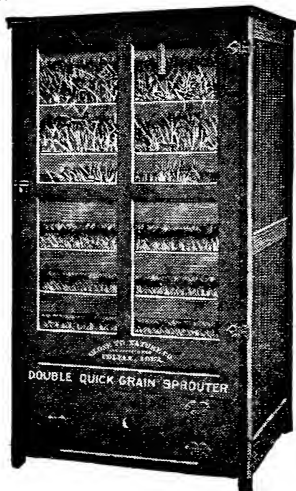
- |                       |                        |                                |                           |
|-----------------------|------------------------|--------------------------------|---------------------------|
| 1. Wet Grain Grinding | 4. Most Durable        | 7. Self Aligning Plate Holders | 10. Efficient End Thrust. |
| 2. Fine Grinding      | 5. Silent in Operation | 8. Self Sharpening Plates      | 11. Simple in Operation.  |
| 3. Light Running      | 6. Jiffy Change Plates | 9. Matchless Capacity          | 12. No Heating of Grain.  |

YOU WILL FIND LETZ BUHR'S ONLY IN LETZ MILLS



## POULTRY SUPPLIES—(Continued)

### The Double Quick Grain Sprouter



**THE PERPETUAL POULTRY SILO**  
The grain sprouter doubles the egg yield—cuts in half the feed bill—sprouts in 24 hours, forces growths of 1 to 2 inches daily—sprouted Oats for winter eggs. The most useful invention in the poultry industry since that of the incubator is the Grain Sprouter. Recent scientific research in the feeding of poultry has developed the fact that for prolific egg production there is no feed that compares with the sprouted grains. The newly germinated grains for growing chicks and the sprouted oats for laying hens are producing most remarkable results.

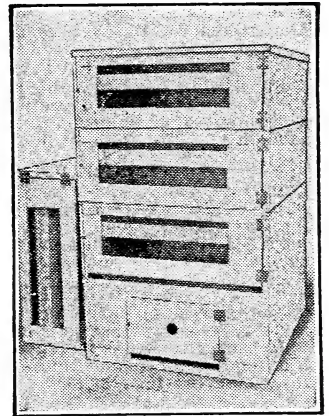
The Double Quick is the first, the original pioneer. It is built in six sizes, one-fourth bushel to eight bushel. A few hens to a thousand.

| DOUBLE QUICK |         |       |       |
|--------------|---------|-------|-------|
| No. 1        | \$ 8.00 | No. 4 | 19.75 |
| No. 2        | 9.75    | No. 5 | 29.00 |
| No. 3        | 15.00   | No. 6 | 44.00 |

### THE COLFAX ALL METAL SPROUTER

Built in sections—Add sections as your flock increases. Two base units. Small base, 1 bu., 2 trays, 25-35 hens. Small section, 1 bu., 2 trays, 25-35 hens. Large base, 1 bu., 2 trays, 100-150 hens. Large section 1 bu., 2 trays, 100-150 hens.

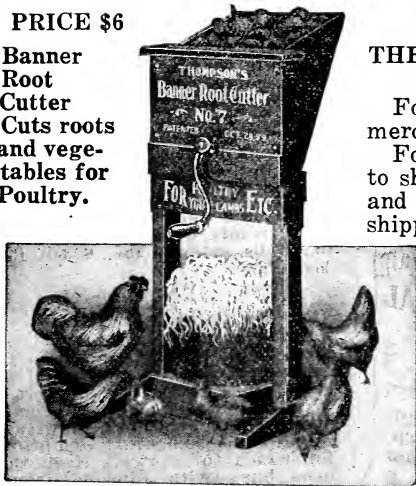
### The Colfax All-Metal Sprouter



| Colfax Metal  |         |
|---------------|---------|
| Small Base    | \$ 8.00 |
| Small Section | 3.50    |
| Large Base    | 16.00   |
| Large Section | 7.50    |

PRICE \$6

**Banner Root Cutter**  
Cuts roots and vegetables for Poultry.

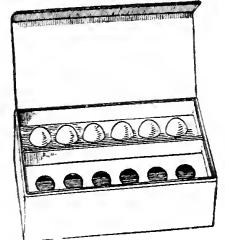


### Non-Busto Elastic Egg Carrier

#### THE MOST SENSATIONAL IMPROVEMENT IN EGG CARRIERS EVER MADE

For Parcel Post or Express Shipments of Commercial or Hatching Eggs.

For the first time in history it is made practical to ship eggs by Parcel Post with perfect safety—and yet at a cost so low to show a profit to the shipper. Your egg-shipping problems are solved at last. You will see at a glance that this is the simplest, safest egg carrier ever thought of. Complete with filler and 2-color gummed label. Eggs suspended vertically in air cushions.



| Commercial Egg Carrier |                  |                |
|------------------------|------------------|----------------|
| Size                   | Weights Per Doz. | Price Per Doz. |
| 1 Dozen                | 7 lbs.           | \$0.60         |
| 2 Dozen                | 13 lbs.          | .95            |
| 3 Dozen                | 15 lbs.          | 1.25           |
| 4 Dozen                | 21 lbs.          | 1.55           |
| 5 Dozen                | 25 lbs.          | 1.85           |
| 10 Dozen               | 47 lbs.          | 3.60           |

| Hatching Egg Carrier |                  |                |
|----------------------|------------------|----------------|
| Size                 | Weights Per Doz. | Price Per Doz. |
| 15 Eggs              | 9 lbs.           | \$1.10         |
| 30 Eggs              | 15 lbs.          | 1.95           |
| 50 Eggs              | 21 lbs.          | 2.60           |
| 100 Eggs             | 40 lbs.          | 4.90           |

### THE HUMANE ANTI-HEN-SETTING DEVICE

(Patented March 18, 1917)

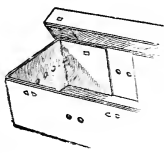
The only device ever invented that will stop a hen setting and cure her of broodiness in twenty-four hours and do it without the slightest pain or suffering for the hen, and no wasted time or trouble for you. Clasp on leg and let the hen run free for 24 hours, then remove. Price, 10c each; 1 doz, \$1.10, postpaid.



### EFFICIENCY BABY CHICK CARRIERS

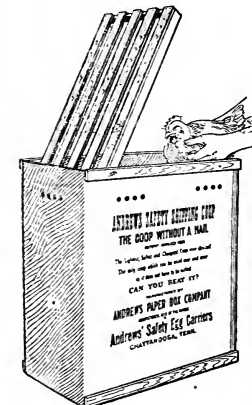
Top and bottom one piece each; shipped flat; put together by brass brads, no glue nor tape needed.

| Sizes      | Dimensions    | Weights Dozen | Price Dozen |
|------------|---------------|---------------|-------------|
| 25 Chicks  | 13½x 8x5½ in. | 11 lbs.       | \$2.25      |
| 50 Chicks  | 14½x14x5½ in. | 18 lbs.       | 2.75        |
| 100 Chicks | 26½x15x5½ in. | 30 lbs.       | 3.75        |



### EFFICIENCY KOOPS "Without a Nail"

For shipping breeding birds. Lightness makes great saving in express charges. Collapsible and easily stored. Put together with steel rods saving time and labor. Can be used over and over.



| Size                                  | Dimensions | Weights Dozen | Prices Each |
|---------------------------------------|------------|---------------|-------------|
| Pet (Pigeons, Bantams, Puppies, etc.) | 22½x13½x12 | 72            | \$0.50      |
| Single, 1 to 3 birds                  | 22½x13½x24 | 82            | .55         |
| Double, 2 to 4 birds                  | 22½x19½x24 | 106           | .75         |
| Pen, 5 to 7 birds                     | 22½x23½x24 | 128           | .85         |

# Lincoln Brand Poultry Feeds

Our Lincoln Brand Poultry Feeds are economical to use because they contain only good clean seeds and grains mixed in the proper proportions to make balanced rations for your birds at every age. That will help your baby chicks grow rapidly, developing strong constitutions and grow into splendid pullets and cockerels. For full grown stock you must supply feeds that will not only nourish their bodies but also enable them to lay eggs. Corn alone makes fat, but very few eggs. The formulas used in our poultry feed mixtures are recommended by the Poultry Department of the Nebraska State Experiment Station.

## MEAT SCRAPS

For laying hens may be mixed one part meal scraps to three parts crushed grain, bran or shorts. Wet with hot water, or skimmed milk, preferred. Feed night and morning. 3 lbs., 25c; 50 lbs., \$3.75; 100 lbs., \$7.00.

## BLOOD MEAL

This is pure, rich, dried blood. Very fine for incubator chicks, as it prevents loss from breaking down or leg weakness. Good to start hens laying. Feed one part blood meal to fifteen parts of mash. 2 lbs., 25c; 50 lbs., \$4.25; 100 lbs., \$8.00.

## CRYSTAL GRIT

Not only your large fowls, but your small chickens must have grit. Most so-called chicken cholera is simply indigestion caused by lack of grit with which to grind the food. Large, medium and chick. 12 lbs., 25c; 50 lbs., 75c; 100 lbs., \$1.15.

## CRYS-CO



A shell producer and grit in one. It is the crystalized molluscan shell formation or petrified shell, nature's own product, and is mined and crushed coarse, medium and fine for the great American hen. 12 lbs., 25c; 50 lbs., 75c; 100 lbs., \$1.15.

## CRUSHED SHELLS

If you expect your hens to lay eggs you must furnish them with something to make shell. 12 lbs., 25c; 50 lbs., 75c. Clam shells, 75c per 100 lbs.; Oyster shells, \$1.25 per 100 lbs.

## POULTRY BONE

Should be kept before poultry of all classes, at all times, especially where egg production is desired. They will be the best judges as to the amount they want. Young chickens should be permitted to get it at their pleasure. Large, medium chick and meal. 3 lbs., 25c; 50 lbs., \$2.75; 100 lbs., \$5.25.

## BUTTERMILK STARTING FOOD

A ready prepared food for baby chicks, composed of hulled oats, wheat middlings, wheat, corn, prepared Buttermilk, bone, iron sulphate, gentian root and prepared mustard proportion. Buttermilk Starting Food supplies Buttermilk to the chicks in dry form with only the water eliminated. Supplies all the needs of the chick—except for grit and fine drinking water—until one week old; then add green food. In the second week begin supplying animal food, also Lincoln Brand Chick Feed in litter, to induce exercise and gradually prepare the chicks for the change in feed later on. Feed Buttermilk Starting Food by mixing with small amount of water until crumbly but not pasty or sloppy. 5 lbs., 50c; 10 lbs., 90c; 25 lbs., \$2.00; 50 lbs., \$3.90; 100 lbs., \$7.55.

## BIRD SEED, ETC.

We Carry a Complete Stock of Clean, Pure Bird Seed

### CANARY (Sicily)

Superior to all other varieties. 1 lb., 40c; 2 lbs., 75c; postpaid. 1 lb., 30c; 2 lbs., 55c; by express.

### RAPE

Very desirable to furnish variety. 1 lb., 20c; 2 lbs., 35c; by express. 1 lb., 30c; 2 lbs., 55c; postpaid.

### HEMP, RUSSIAN

A very rich, oily seed, much liked by all birds. Should be fed sparingly, as it fattens the bird and injures the song. 1 lb., 25c; 2 lbs., 45c; postpaid. 1 lb., 15c; 2 lbs., 25c; by express.

### MIXED SEED FOR CANARIES

All clean, plump seed, in the proportions called for by experienced bird fanciers. 1 lb., 25c; 4 lbs., 95c; 9 lbs., \$2.00; postpaid. 1 lb., 20c; 4 lbs., 75c; by express.

We have on hand and for sale at all times a choice lot of Canary Birds, Hartz Mountain, German Rollers, etc., guaranteed singers, priced at from \$7.50 to \$12.00 each, delivered to your station. Also a choice lot of females, priced at from \$3.50 to \$5.00. In addition we also carry a full stock of Bird Supplies, such as Cages, Gravel, etc. Write for special prices.

## LINCOLN BRAND CHICK FEED

This feed we placed on the market several years ago and our trade has continually increased until we now sell it in car load lots. This feed is made of the sweetest, purest and cleanest cracked grain and seeds of a uniform size and mixed in the proper proportions for the best results for small chickens. The grains we use in this mixture cost more than are ordinarily used as they are especially cracked and cleaned. Feed this for the first few weeks. Always give your chickens plenty of fresh water. 5 lbs., 25c; 50 lbs., \$2.25; 100 lbs., \$4.25.



## LINCOLN BRAND DEVELOPING FEED

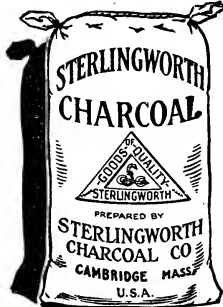
Has no equal for growing chickens. It is a mixture of small land cracked grains and seeds mixed in the proper proportions for the most rapid growth of poultry. Should be fed as soon as chicks get too large to feed Lincoln Brand Chick Feed. 6 lbs., 25c; 50 lbs., \$2.10; 100 lbs., \$4.05.

## LINCOLN BRAND LAYING MASH

A high protein mash for laying hens. It consists of six or eight ground grains with a good proportion of meat scraps mixed in the right proportion for the best results. It is the finest mixture we can prepare regardless of price. Is highly recommended by the State Poultry Experiment Station. Should be fed in connection with the Lincoln Brand Scratch Feed and kept before them in a hopper of easy access at all times. Be sure and give your laying hens plenty of fresh water. 4 lbs., 25c; 50 lbs., \$2.25; 100 lbs., \$4.15.

## CHARCOAL

This is a most excellent ingredient to mix with mash. 10c per lb., 4 lbs., 25c; 50 lbs., \$2.50; 100 lbs., \$4.50.



## LINCOLN BRAND SCRATCH FEED

This can be used to follow Lincoln Brand Developing Feed. It consists of eight to twelve different kinds of seeds and grains. It contains no oyster shell or grit, no waste material. The fowl always finds something tempting for which to scratch. Keep the hens busy with Lincoln Brand Feeds and you will not lack eggs. 6 lbs., 25c; 50 lbs., \$2.10; 100 lbs., \$4.05.

## MAMMOTH RUSSIAN SUNFLOWER

Most important food for parrots. Very nutritious and is liked by all large seed-eating birds. By freight: 1 lb., 20c; 2 lbs., 35c; 11 lbs., \$1.75; 50 lbs., \$6.50; 100 lbs., \$12.00. 1 lb., 25c; 3 lbs., 70c; postpaid.

## CUTTLE BONE

Important for canaries, parrots, and all seed-eating birds. 2 for 5c. Postpaid: 4c each; 45c per dozen.

## SONG RESTORER

It restores to their natural notes, birds which have lost their song from exposure to cold or excessive moulting. The use of one box will bring good results. Use in connection with their daily food. 25c postpaid. 15c each not postpaid.



**ALL PRICES ON THIS PAGE SUBJECT TO CHANGE**

# "Red Snapper" Plant Food

## MAKES PLANTS GROW AND BLOSSOM

This Plant Food which is for flowering plants, vines, shrubs, etc., has exceptional merits. We can speak from experience in this regard as we gave it careful tests in our own gardens and greenhouses this past summer. It certainly gives plants a quick, yet sturdy, healthy growth. The blossoms come out more profuse; they are larger in size and richer in coloring. This Plant Food is not the ordinary chemical stimulants generally offered for sale, but an organic fertilizer containing a very rich analysis of Plant Food. It is made from the head bones and nitrogenous cartilage of Red Snapper fish and is dried, sterilized and

ground into the finest meal. It is thoroughly clean and sanitary, and can be used in the finest homes and conservatories as well as for out door use. We enclose in each box of Plant Food a small package of so-called Plant Tonic which is used to sweeten sour or dead soil and put it in better condition to assimilate the Plant Food. We wish everyone of our customers would try one or more packages of this article and they will be surprised at the results.

Price: 24 ozs. Plant Food with 4 ozs. tonic in square corrugated paper contained, 60c; postpaid; 50c; not postpaid. 4 lb. package with 8 ozs. tonic, \$1.35; postpaid; \$1.00, not postpaid. Where these packages are ordered with other goods we prepay express or postage.

## CONCENTRATED TABLETS

### A New Scientific Concentrated Fertilizer for Potted Plants and Vegetables

Takes the place of liquid manure. Used by dissolving in water. It starts the plants at once into healthy and vigorous growth and makes them bloom luxuriantly. Trial size box sufficient for 10 house plants for 3 months. 10c postpaid. Regular size box, sufficient for 35 plants for 3 months, 25c postpaid.



## "RED SNAPPER" PLANT SOAP

This season for the first time we are placing on the market an exceptionally pure grade of fish oil soap. It is sold under the trade name of "Red Snapper" Plant Soap. It is used as a bath for the flowers, and also



used as a spray. When used as a bath, a small quantity is diluted with water in the shape of suds in a pail or tub, and if convenient, plants are dipped directly into the solution. Ferns and large plants that can not be handled in this way are sprayed with the solution, being careful that the under side of the leaves are thoroughly wetted. With proper dilution the fish oil soap with sulphur and nicotyl is entirely harmless to plants, but death to insects. As this soap combines the three well established and generally used essentials of insect killing elements, extract of tobacco or nicotyl, sulphur and fish oil soap, it saves the annoyance of keeping several kinds of insecticides on hand. "Red Snapper" Plant Soap, "A bath for flowering plants" and a sure cure for the insect pests, 25c in U. S., 35c in Canada.

## WALKER'S EXCELSIOR BRAND PLANT FOOD



Flowers are like people, their health depends upon their food. It must be nourished, but not too rich to force growth and cause reaction. A chemically correct flower food for house plants. It has no odor whatever and can be used dry or dissolved in water for sprinkling. Use it and your flowers will flourish;

their health will last. Trial size (enough for 10 plants 6 months), 15c, postpaid. Small size (feeds 25 plants for 6 months), 30c, postpaid. Large size (enough for a year for 30 plants), 50c, postpaid.

## REEDS AND RAFFIA

### NU-REED

Owing to war conditions we have been unable to secure any more of the natural reed and have been forced to substitute Nu-Reed, a reed that has proven, from reports of our natural reed customers, very satisfactory. Send for samples and sizes.

|                       | Ft.             | Price  | Ft. | Weight | Price  |
|-----------------------|-----------------|--------|-----|--------|--------|
| No. 1                 | 25              | \$0.05 | 120 | 4 oz.  | \$0.25 |
| No. 3                 | 20              | .05    | 100 | 4 oz.  | .25    |
| No. 4                 | 15              | .05    | 80  | 4 oz.  | .25    |
| No. 6                 | 8               | .05    | 40  | 4 oz.  | .25    |
| No. 7                 | 13              | .10    | 48  | 8 oz.  | .45    |
| No. 9                 | 11              | .10    | 45  | 8 oz.  | .45    |
| No. 11                | 9               | .10    | 30  | 8 oz.  | .50    |
| Nes. 1 and 3,         | 480-400 ft.,    | 16 oz. |     |        | .90    |
| Nos. 4 and 6,         | 320-144 ft.,    | 16 oz. |     |        | .85    |
| Nos. 7, 9 and 11,     | 128-120-80 ft., | 16 oz. |     |        | .75    |
| Raffia Needles, 6 for |                 |        |     |        | .10    |

### RAFFIA

|  |        |
|--|--------|
| Colored, per skein, 1 oz.                    | \$0.10 |
| Colored, 1/2 lb.                             | .40    |
| Colored, 1 lb.                               | .60    |
| Natural, per skein, 1 oz.                    | .05    |
| Natural, per lb.                             | .65    |
| Natural, per 4 lbs.                          | 2.25   |
| Book of Basket Making Instructions, postpaid | .35    |

## SPRAYING UNDER THE LEAVES KILLS THE INSECTS

A Cake of Tobacco Soap free with each Sprayer

### PRICE

50<sup>c</sup>.

FOR THE  
ROSE BUSHES  
AND  
GARDEN PLANTS

Will reach Vines  
ten feet high.

Just lovely for  
the flower bed.

If you like flower-  
ers, you need this  
Sprayer.



FOR  
INDOOR  
SPRAYING  
UNDER  
THE  
LEAVES

A mist like  
spray cover-  
ing every  
part of the plant,

### THE THING LONG NEEDED

Just what mother was long looking for.  
Excellent for seeds newly sown they will  
not wash out to the surface.

HAVE ONE COME WITH YOUR SEEDS

# High Grade Fertilizer and Lawn Dressing

Gardeners and owners of lawns in the Middle West country have not yet comprehended the importance of intelligent application of fertilizers. Too often they, knowing the need of something, blindly try this and that at much expense and without results. The following is a list of fertilizers we have on hand at all times. We fully recommend these. Write us for quantity prices.



## NITRACO

NITRACO has been evolved after years of study of the Fertilizer business and the demands of the gardening public, and is designed to be the most perfect and complete Fertilizer placed upon the market. It is so compounded that it may be termed the "Universal Fertilizer" and can be applied with safety to any soil in any climate, to "ANYTHING THAT GROWS". The only precaution that is necessary is in the quantity to be applied, and this is set forth in our circulars and on the bags, cartons, etc. Care, however, should be exercised to never heavily increase the quantities stated, but rather to apply often and regularly once a month, and upon strong growing plants every two weeks. NITRACO is packed in 1-lb. and 5-lb. cartons or 5-lb., 10-lb., 25-lb., 50-lb. and 100-lb. heavy drill and burlap bags, and is sold at the following prices: Analysis: Ammonia 4 per cent, phosphoric acid 8 per cent, potash, 2 per cent.

|                                 |        |
|---------------------------------|--------|
| 1 lb. carton, postpaid.....     | \$0.35 |
| 5 lb. carton postpaid.....      | .85    |
| 10 lb. bags, not postpaid.....  | 1.25   |
| 25 lb. bags, not postpaid.....  | 2.50   |
| 50 lb. bags, not postpaid.....  | 4.50   |
| 100 lb. bags, not postpaid..... | 7.00   |

## STEAMED GROUND BONE

### THE FINEST OF STEAMED BONE

Analysis: Ammonia 3 per cent, Bone Phosphate of Lime 50 per cent

This is finely ground and of first quality; it starts to decompose quickly so results from its use are soon apparent but it does not dissolve so fast as most chemical fertilizers so it continues for a long period its improvement in the soil fertility; it is less likely than other fertilizers to leach or waste. With bone there is no danger of burning the plants. It contains 23 per cent Phosphoric Acid, one of the principal plant foods. Use 3 to 5 pounds of bone meal for each tree and vine when setting out, working it in well around the roots.

For New Lawns, use 500 lbs. of bone meal with a ton of sheep manure per acre. This should be plowed under or spaded in, several weeks before sowing the seed. Old lawns, top dress very early in Spring with sheep manure and bone meal mixed, at the rate of 2200 lbs. per acre or 50 lbs. per 1000 square feet.

Field and Garden Crops, 1 to 1 ton broadcasted and harrowed in. This is especially desirable for use with sheep or cattle manure which is rich in nitrogen.

### PERMANENT PASTURES AND MEADOWS

Use 1 to 1 ton per acre before growth starts in the spring. This will stimulate the growth of the plants and result in improving the stand. Its effect will be apparent for several years. Price, 25 lbs., \$1.50; 50 lbs., \$2.75; 100 lbs., \$5.00.

## SHEEP MANURE

Analysis: Ammonia, 2.50 per cent; Phosphoric Acid, 1.50 per cent; Potash, 1.50 per cent

This is a splendid, complete fertilizer containing the necessary plant foods and is also rich in humus, or vegetable matter. It is excellent for general use either alone or in combination with other special purpose fertilizers. Having been kiln dried, there is little danger from weed seeds. It can be used freely as it is not likely to burn anything. Part of it is very soluble so its effects are usually apparent soon after the application and for a long time afterwards. It is carefully selected, dried, pulverized and screened.

For Lawns. Pulverized sheep Manure is a fine fertil-

izer for the lawn. It should be applied by sprinkling lightly over the grass, much as one would sow grass seed, in the Spring and up to July 15th. It requires no raking in. The color is not conspicuous and there is no objectionable odor. This will nourish the grass, act as a mulch, and tend to prevent the lawn from burning in hot weather. Use 50 lbs. per 1000 square feet or 25 lbs. with 25 lbs. of bone meal. See note on bone meal.

For the Garden. After the crop has been harvested in the Fall, the garden should be given a good coating of Sheep Manure. In the Spring put on another light coat and turn it under, or sow lightly in the rows.

For Public Parks. Sheep Manure is used on some of the best public parts in this country, including the beautiful park system of Minneapolis.

For Truck Garden. Sheep Manure is a good fertilizer for the truck garden producing better and earlier crops of onions, celery and other vegetables. Price, 1b., 5c; 5 lbs., 20c; 10 lbs., 35c; 25 lbs., 75c; 50 lbs., \$1.50; 100 lbs., \$2.50; 500 lbs., \$9.50; 1,000 lbs., \$18.50; ton \$32.00.

## NITRATE OF SODA

### THE UNIVERSAL TOP DRESSER

Analysis: Nitrogen 15 per cent; equal to Ammonia 18 1/2 per cent

Quick in action; used for the nitrogen it contains. It creates rapid growth, is odorless, and entirely soluble. It should be applied only when the plants are above ground, usually in combination with other chemical fertilizers.

Nitrogen is the most important element in the production of plant life. When this has become exhausted from the soil, it must be replaced to again insure productivity.

Nitrate of Soda is the best form in which nitrogen can be restored to the soil. It is of special value for early crops such as Peas, Corn, Beets, Cabbage, etc., when rapid maturity is essential, and of great benefit to lay and forage crops, which are unable to obtain sufficient nitrogen from the soil when they most need it. Nitrate of Soda, is a great stimulant for the production of Sugar Beets, Potatoes and Sorghum, also small fruits that need a steady, even growth to promote uniform maturity. Price:

|                 |        |                  |        |
|-----------------|--------|------------------|--------|
| 1 lb. tin.....  | \$0.35 | 25 lb. bag.....  | \$2.50 |
| 5 lb. bag.....  | .85    | 50 lb. bag.....  | 5.00   |
| 10 lb. bag..... | 1.25   | 100 lb. bag..... | 8.50   |

## SWARD FOOD



Sward Food is a Top Dressing prepared to feed the grasses and insure a thick and matted growth of rootlets, resulting in a compact and velvety turf. It also acts as a preventive and destroyer of the Antler or Grass Moth, and contains in soluble form the organic requisites for the healthy and luxuriant growth of all varieties of grasses. Don't cover your lawn with unsightly and offensive stable manure.

To Revive Old Grass Around the House, Rake off the dead grass and scratch the ground with an iron-tooth

rake. If there are any bare places, sprinkle in a little mixed grass or lawn seed then roll or tread spots. Apply a light dressing of "Sward Food" occasionally. Approximate quantity to be used: For say 2,000 square feet, 25 lbs.; per acre, 600 to 1,000 lbs. It is put up to suit the small front yard, the little flower bed, the garden patch, or the magnificent lawn: 5 lb. packages: 10 and 25 lb. bundles. Price, 5 lbs., 45c; 10 lbs., 85c; 25 lbs., \$1.75.

If your soil is worn out or poor, use Fertilizer. Make every foot of your land pay a dividend.

PRICE OF ALL FERTILIZER SUBJECT TO CHANGE

## RABBIT REMEDIES AND SUPPLIES

No other business has known such popularity as the Rabbit industry. At one time Rabbits were merely raised for pets, the children keeping a few in a pen, disposing of the young by giving them to the neighbors. But now their value from a financial stand-point is being recognized; they are as profitable to raise as poultry. Not only are they raised for show purposes, but also for their meat and pelts. It is also a recognized fact that no other animal will produce meat as quickly and as cheaply as they will.



### PRICE LIST

We carry in stock at all times a complete stock of Remedies and Medicines for diseases peculiar only to the rabbit. Do not wait until the rabbit is sick. Keep some medicine on hand.

#### SNUFFLE REMEDIES

|  |        |
|--|--------|
| Vitalene, quart cans.....  | \$2.00 |
| Vitalene, 8 ounce bottles.....   | 1.00   |
| Wonder Oil—The Nasal Treatment for Snuffles, 2 ounce bottles.....                  | .50    |
| Snuffle—“Ebco”—2 ounce Tins.....   | .50    |
| Red Rubber Syringe with hard Rubber Pipe for administering medicine.....           | .25    |
| Ear Canker Remedy, 1 ounce bottles.....  | .25    |
| Slobber Remedy, 3 ounce boxes.....   | .25    |
| Ointment—for vent disease, sore hocks, mange, abscesses and all skin diseases..... | .50    |

#### DISINFECTANTS

|   |        |
|---|--------|
| Germicide Liquid, quart cans.....         | \$1.25 |
| Germicide Powder, 1½ lb. shaker cans..... | .35    |
| Germicide Powder, 12 lb. pails.....       | 2.00   |

#### CONDITION POWDERS

|  |        |
|--|--------|
| Rabbit & Cavy Regulator, 1¼ lb. pgs..... | \$1.00 |
| Toneup “Ebco,” 3 ounce box.....          | .35    |

#### FUR STRETCHERS

|   |      |
|---|------|
| No. 1, Adjustable Steel, for Giant Rabbits, ea. | 65c  |
| No. 2, Adjustable Steel, medium size, each..... | 50c  |
| Aluminum Ear Tags, 50 for.....                  | .70  |
| Aluminum Ear Tags, 100 for.....                 | 1.35 |
| Gibson Ear Marker.....                          | 1.00 |
| Gibson's Rabbit Book, Cloth.....                | 1.50 |
| Gibson's Rabbit Book, Paper.....                | 1.00 |

The Rabbit Hutch must be such as will provide plenty of pure fresh air without draft. An outside hutch should have a perfectly tight, dark compartment fully 2 ft. square at one end of the hutch. This should contain plenty of dry straw or hay. “Never use short grass.” The open part of the hutch should be the feeding rooms. This should be at least 2x5 ft. and covered only with a wire netting. Clean and disinfect thoroughly twice a week.

### KEEP YOUR RABBITS HEALTHY

You cannot dodge disease germs, but you can attack them with Mayhew's Germicide. You can attack germs in many places and exterminate them before they can bring disease to your stock. Mayhew's Germicide is a weapon.

### NO. 136 PRUNER



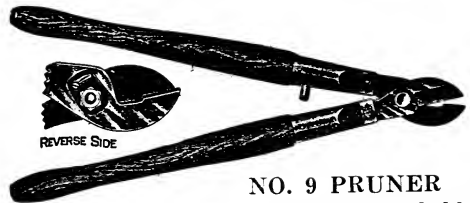
The best grade of forged steel. Handles 22 inches long. Price, \$2.40, by express.

### Pruning Shears



Nine-inch forged steel polished blades, volute spring. Price,

postpaid, \$1.40; not postpaid, \$1.20.



### NO. 9 PRUNER

A good grade of steel, with polished blades. Price, \$1.75, by express.

### WATER'S TREE PRUNERS

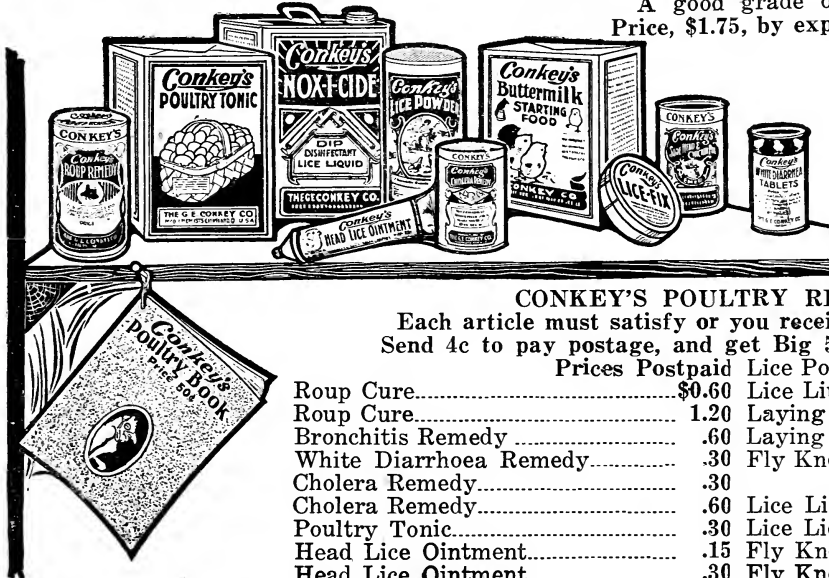
Has cast steel single blade. Wood pole, 8 foot handle \$3.60; 10-foot, \$3.90, by express.



### CONKEY'S POULTRY REMEDIES

Each article must satisfy or you receive your money back  
Send 4c to pay postage, and get Big 50c Remedy Book Free

| Prices Postpaid             |        | By Exp. Collect             |        |
|-----------------------------|--------|-----------------------------|--------|
| Roup Cure.....              | \$0.60 | Lice Powder (small).....    | \$0.30 |
| Roup Cure.....              | 1.20   | Lice Liquid (1 quart).....  | .50    |
| Bronchitis Remedy.....      | .60    | Laying Tonic.....           | .30    |
| White Diarrhoea Remedy..... | .30    | Laying Tonic.....           | .60    |
| Cholera Remedy.....         | .30    | Fly Knocker (1 quart).....  | .50    |
| Cholera Remedy.....         | .60    | Lice Liquid (½ gallon)..... | .75    |
| Poultry Tonic.....          | .30    | Lice Liquid (1 gallon)..... | 1.25   |
| Head Lice Ointment.....     | .15    | Fly Knocker (½ gallon)..... | .75    |
| Head Lice Ointment.....     | .30    | Fly Knocker (1 gallon)..... | 1.25   |



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# FIELD AND GRASS SEEDS

JANUARY 15, 1919

NO. 1

These Prices Subject to Market Changes.

**FANCY SEEDS.** By this we mean the best seed we can secure. On this page we list present prices of all grass and field seeds found in our catalog. Conditions are so unusual this year we cannot tell from month to month what prices on seeds will be. These are the present prices. We would advise all of our customers to order as early as possible and in this way secure just what they want at the right prices. The outlook at the present time is that all kinds of seeds will be higher before planting time. Any seed you get from us we would like to have you send to your State Agricultural Department and have it tested both for purity and germination. If it is not just what you bought return it and we will cheerfully return your money.

## Clovers and Alfalfa

|                                  | lb. | 10 lb. | 60 lb.  | 100 lb. |
|----------------------------------|-----|--------|---------|---------|
| Alfalfa, Lincoln Brand.....      | .30 | \$2.50 | \$14.50 | \$23.50 |
| Alfalfa, Fancy.....              | .30 | 2.25   | 13.75   | 22.50   |
| Alfalfa, Choice.....             | .25 | 2.15   | 12.50   | 19.50   |
| Alfalfa, Turkestan.....          | .30 | 2.50   | 14.50   | 23.50   |
| Red Clover, Lincoln Brand.....   | .50 | 4.75   | 27.50   | 45.00   |
| Red Clover, Fancy.....           | .45 | 4.35   | 25.75   | 42.50   |
| Red Clover, Mammoth.....         | .50 | 4.80   | 27.65   | 45.50   |
| Alsike Clover, Fancy.....        | .40 | 3.75   | 21.60   | 35.00   |
| Sweet Clover, White Blossom..... | .35 | 3.00   | 17.00   | 27.50   |
| White Clover, Fancy.....         | .75 | 7.00   | 40.00   | 65.00   |

## Seed Corn—Butted, Tipped and Hand Picked

|                                  | bu.    |
|----------------------------------|--------|
| Hogues Yellow Dent.....          | \$4.50 |
| Nebraska White Prize.....        |        |
| Pride of the North.....          |        |
| Improved Leaming.....            |        |
| White Cap Butcher.....           |        |
| Calico.....                      |        |
| Silver Mine.....                 |        |
| Yellow Flint.....                |        |
| Improved Read's Yellow Dent..... |        |
| Gold Mine.....                   |        |

## Grass Seeds

|                                       | lb. | 10 lb. | 25 lb. | 100 lb. |
|---------------------------------------|-----|--------|--------|---------|
| Extra Fan'y Ky. Blue Grass.....       | .35 | \$3.25 | \$7.50 | \$27.00 |
| Brome Grass, Fancy.....               | .35 | 3.00   | 7.00   | 27.00   |
| English Blue Grass.....               | .30 | 2.75   | 5.75   | 21.00   |
| Red Top, Fancy Hulled.....            | .20 | 1.95   | 4.75   | 18.00   |
| Red Top, Unhulled.....                | .15 | 1.45   | 3.50   | 13.00   |
| Orchard Grass, Fancy.....             | .30 | 2.90   | 6.50   | 26.00   |
| English Rye Grass, 24 lbs. to bu..... | .20 | 1.80   | 4.00   | 14.00   |
| Timothy, Fancy.....                   | .20 | 1.90   | 4.00   | 14.00   |
| Lawn Grass, Fancy Mix.....            | .50 | 4.50   |        |         |
| Hog Pasture Mixture.....              | .30 | 2.80   | 6.65   | 26.00   |
| Highland Mixture.....                 | .30 | 2.90   | 6.75   | 26.75   |
| Low Land Mixture.....                 | .25 | 2.30   | 5.75   | 21.00   |
| University Mixture.....               | .35 | 3.00   | 7.00   | 26.50   |
| Griswold's Ready Quick.....           |     |        |        |         |
| Annual Hog Pasture Mixt.....          | .15 | 1.00   | 2.00   | 7.50    |

## Seed Potatoes

|   | Per 100 lbs. |
|---|--------------|
| Genuine Red River Grown Early Ohio..... | \$3.25       |
| Red Triumph.....                        | 3.75         |
| Carman No. 3, main crop.....            | 3.25         |
| Rural New Yorker.....                   | 3.25         |
| Irish Cobbler.....                      | 3.50         |

## Onion Sets

|                     | qt. | pk.    | bu.    |
|---------------------|-----|--------|--------|
| Yellow Bottoms..... | .20 | \$1.50 | \$5.50 |
| Red.....            | .20 | 1.50   | 5.50   |
| White.....          | .25 | 1.60   | 6.00   |
| Winter Tops.....    | .20 | 1.50   | 5.00   |

## Millet

|                      | lb. | 50 lbs. | 100 lbs. |
|----------------------|-----|---------|----------|
| White Wonder.....    | .10 | \$4.00  | \$7.50   |
| Liberty, Fancy.....  | .10 | 3.50    | 6.50     |
| Siberian, Fancy..... | .10 | 3.50    | 6.50     |
| Hog, Fancy.....      | .10 | 2.50    | 4.50     |
| Japanese, Fancy..... | .10 | 3.75    | 7.00     |
| Common.....          | .10 | 2.75    | 4.50     |

## Sorghum—Drouth Resisters

|                     | lb. | 50 lbs. | 100 lbs. |
|---------------------|-----|---------|----------|
| Schrock Kaffir..... | .15 | \$5.50  | \$10.00  |
| Sugar Cane.....     | .10 | 2.50    | 4.50     |
| Kaffir Corn.....    | .15 | 2.75    | 5.00     |
| Milo Maize.....     | .15 | 2.75    | 5.00     |
| Feterita.....       | .15 | 3.25    | 6.00     |
| Jerusalem Corn..... | .15 | 5.25    | 10.00    |
| Sudan Grass.....    | .25 | 9.50    | 18.00    |
| Teosinte.....       | .75 | 32.00   | 60.00    |

## Grains

|                                    | lb.              | 50 lbs.   | 100 lbs. |         |
|------------------------------------|------------------|-----------|----------|---------|
| Speltz or Emmer.....               | .10              | \$ 2.75   | \$ 5.00  |         |
| Flax.....                          | .15              | 5.00      | 9.50     |         |
| Buckwheat, Japanese.....           | .10              | 3.90      | 7.50     |         |
| Buckwheat, Silver Hull.....        | .10              | 3.90      | 7.50     |         |
| Broom Corn, Imp'v'd Evergreen..... | .10              | 3.50      | 6.50     |         |
| Broom Corn, Oklahoma Dwarf.....    | .10              | 3.50      | 6.50     |         |
| Sand Vetch.....                    | .30              | 14.00     | 25.00    |         |
| Soy Beans.....                     | Write for Prices |           |          |         |
| Field Peas, Canada.....            | .12              | 4.50      | 8.00     |         |
| Whippoorwill Cow Peas.....         | Write for Prices |           |          |         |
| New Era Cow Peas.....              | Write for Prices |           |          |         |
| Dwarf Essex Rape.....              | .20              | 7.00      | 13.50    |         |
| Spring Vetch.....                  | .20              | 6.50      | 12.00    |         |
|                                    | bu.              | 5 bu.     | 10 bu.   | 25 bu.  |
| Oats, White Kherson.....           | \$1.50           | \$7.00    | \$13.50  | \$32.50 |
| Oats, Kherson.....                 | 1.40             | 6.75      | 13.00    | 31.25   |
| Oats, Swedish Select.....          | 1.50             | 7.00      | 13.50    | 32.50   |
| Barley, White Hullless.....        | 5.00             | 22.50     | 40.00    | 95.00   |
| Barley, Beardless.....             | 3.50             | 17.00     | 33.00    | 80.00   |
| Barley, Manscheuri, 6 rowed.....   | 3.20             | 15.50     | 30.00    | 70.00   |
| Barley, Common.....                | 2.50             | 12.00     | 23.00    | 55.00   |
| Wheat Macaroni.....                | 3.25             | Write for |          |         |
| Marquis Wheat.....                 | 3.25             | Quantity  |          |         |
| Spring Rye.....                    | 3.00             | Prices    |          |         |

## POULTRY SUPPLIES

### Meat Scraps

For laying hens may be mixed one part meal scraps to three parts crushed grain, bran or shorts. Wet with hot water, or skimmed milk, preferred. Feed night and morning. 3 lbs., 25c; 50 lbs., \$3.75; 100 lbs., \$7.00.

### Blood Meal

This is pure, rich, dried blood. Very fine for incubator chicks, as it prevents loss from breaking down or leg weakness. Good to start hens laying. Feed one part blood meal to fifteen parts of mash. 2 lbs., 25c; 50 lbs., \$4.25; 100 lbs., \$8.00.

### Crystal Grit

Not only your large fowls, but your small chickens must have grit. Most so-called chicken cholera is simply indigestion caused by lack of grit with which to grind the food. Large, medium and chick. 12 lbs., 25c; 50 lbs., 75c; 100 lbs., \$1.15.

### Crushed Shells

If you expect your hens to lay eggs you must furnish them with something to make shell. 12 lbs., 25c; 50 lbs., 75c. Clam shells, \$1.15 per 100 lbs.; Oyster shells, \$1.50 per 100 lbs.

### Poultry Bone

Should be kept before poultry of all classes, at all times, especially where egg production is desired. They will be the best judges as to the amount they want. Young chickens should be permitted to get it at their pleasure. Large, medium chick and meal. 3 lbs., 25c; 50 lbs., \$2.75; 100 lbs., \$5.25.

### Lincoln Brand Chick Feed

Feed this for the first few weeks. Always give your chickens plenty of fresh water. 5 lbs., 25c; 50 lbs., \$2.25; 100 lbs., \$4.25.

### Lincoln Brand Developing Feed

Has no equal for growing chickens. It is a mixture of small and cracked grains and seeds mixed in the proper proportions for the most rapid growth of poultry. Should be fed as soon as chicks get too large to feed Lincoln Brand Chick



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# Miscellaneous Supplies



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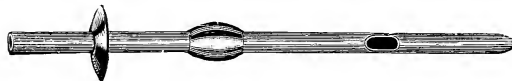
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## CALF DEHORNER

This comes in the shape of a pencil and is very easily applied. Clip off the hair around the little horn at the time it feels like a button and before it starts through the skin. Dampen it a little with water, and rub it with the Dehorner material. This causes the horn to stop growing, and should be applied when the calf is from 5 to 10 days old. Enough for 25 or 30 calves, price 75c.; postpaid.



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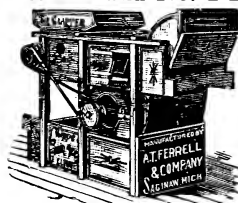
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## COMMON NEST EGGS

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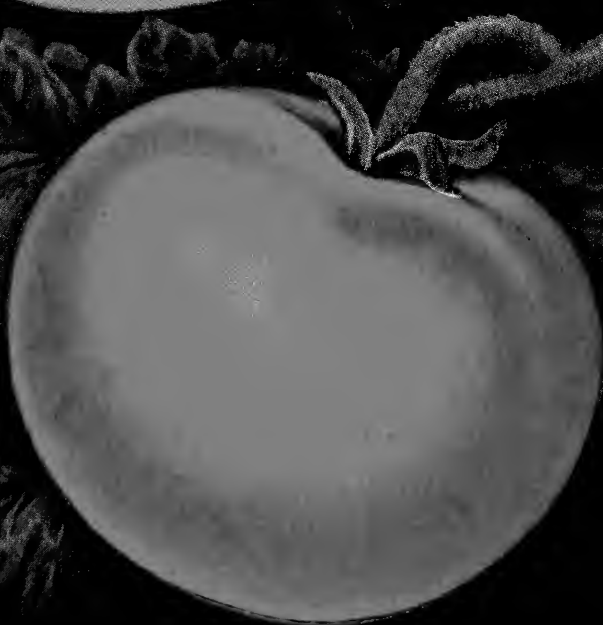
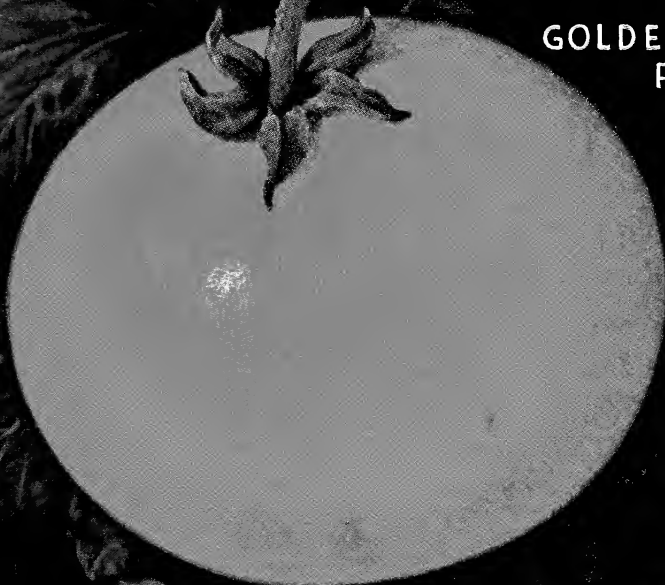
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